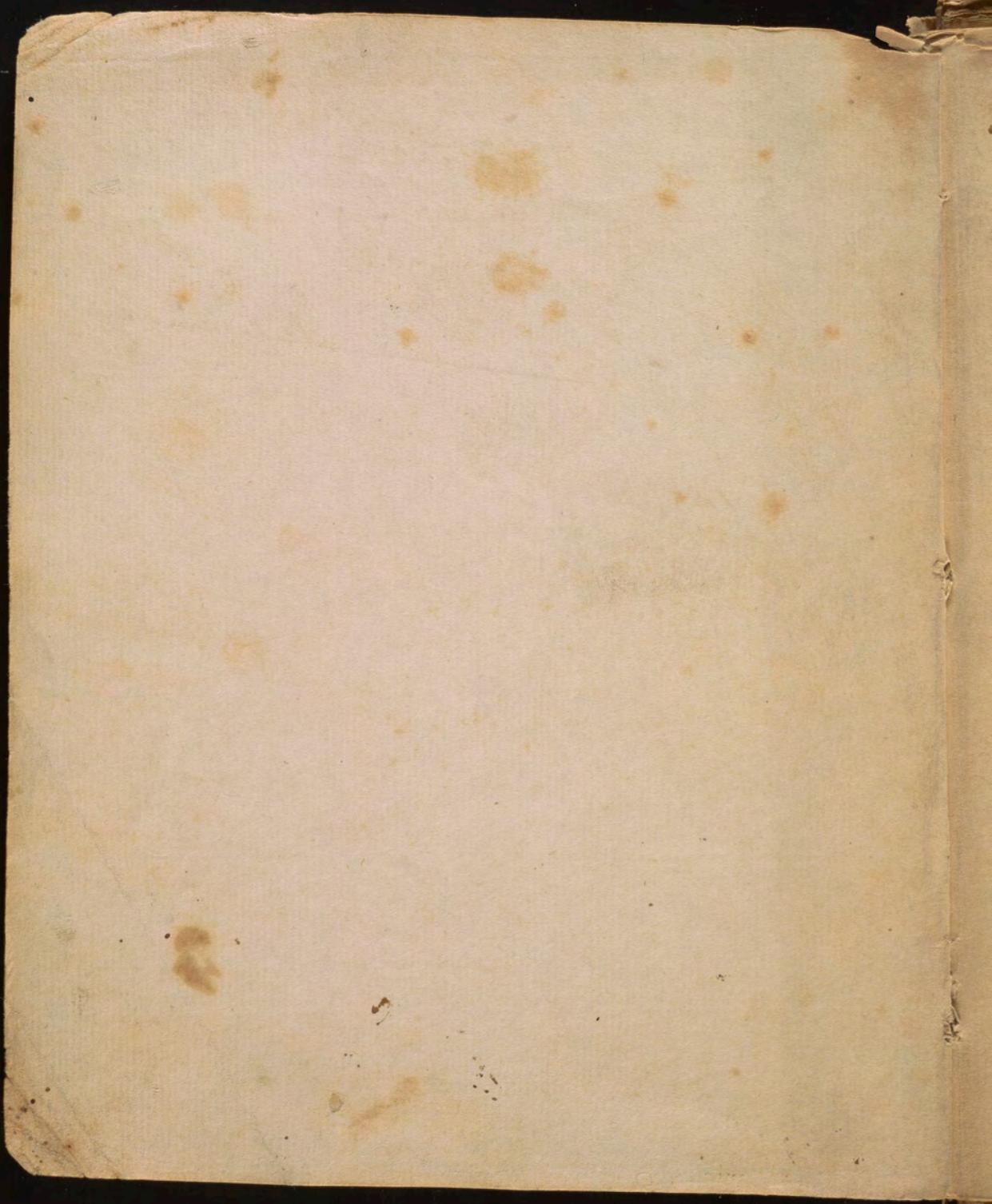


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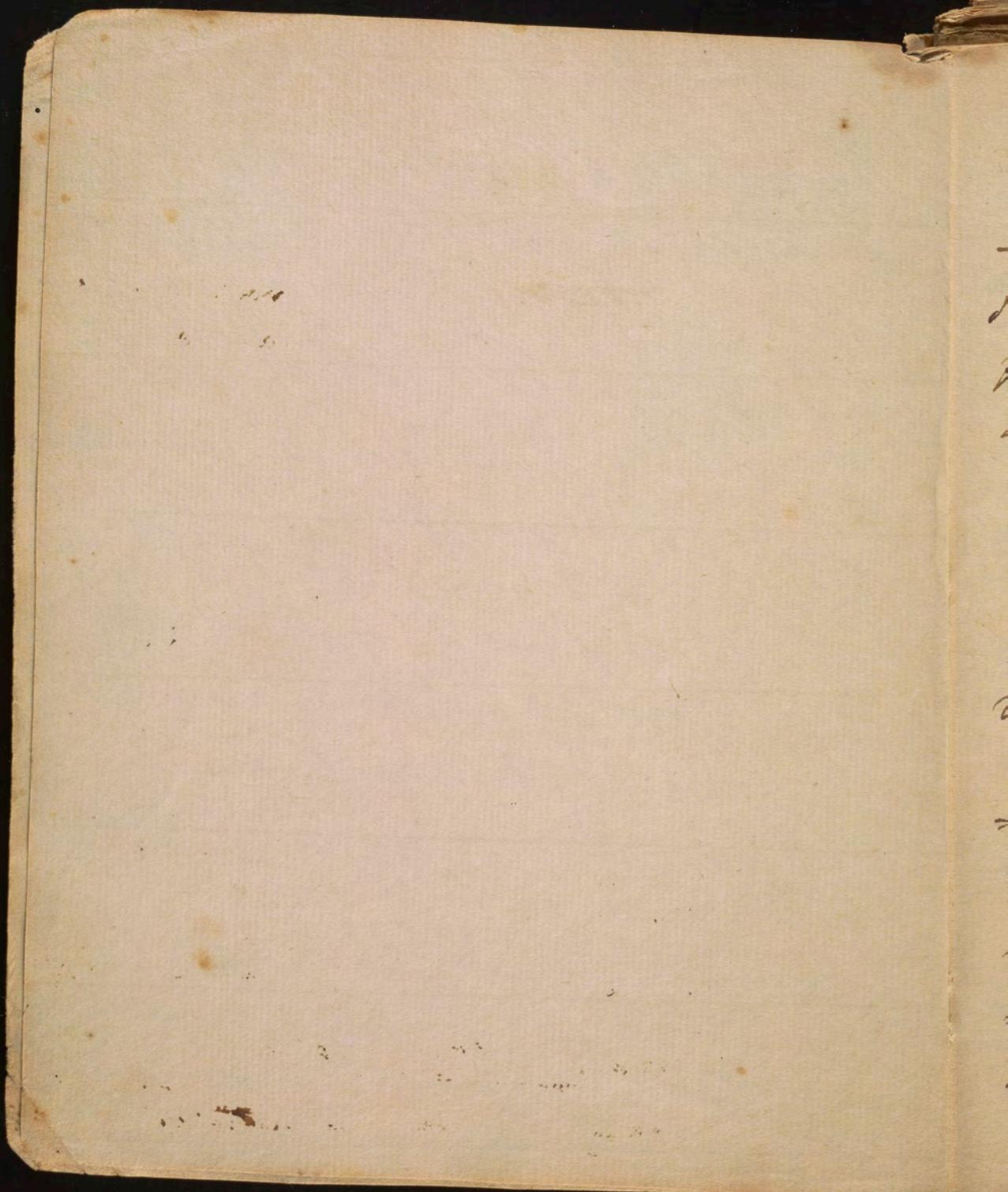
gent:

The practice of Physic is that part of medical science which treats of the ~~of bodies~~ causes - symptoms - & cure of disease. —

The causes have been divided into remote - predisposing - exciting - on occasion & proximate each of wh: have been defined in our pathology.

~~Di~~ symptoms or signs of disease are divided into 3 kinds. ~~of the~~ ^{remote} cause as ~~originating~~ in ~~physiology~~. It is derived from ~~of some remote cause~~ ^{on disease}

In ~~the~~ a course of diseases, it is common to distinguish ⁱⁿ them from each other & to foretell their issue. The former is called Diagnosis - the latter Prognosis.



my system of medicine renders the
Diagnosis of but little consequence.
— The indications of disease as I shall
say here after ~~do~~ arise not so much
from the ^{from general} fact of a disease as ^{the} states
of the system. The Prognosis shall have
its due weight in our lectures. —

The principles I have adopted ren-
ders it necessary for me to adopt a
new order, for I reject totally right
or wrong & all other nomenclatural ar-
rangements of diseases. Were I to follow
the simplicity of my principles I should
likewise reject all the usual names
by which diseases are designated, & treat of
them all as mortal actions varied only
by their feats, or form. — ~~But~~ For the

present I shall retain the usual
names of diseases, but shall distinguish
when they are symptoms only of
disease. —

~~I shall~~ The order I shall
pursue is the same, as that adopted
in our Pathology. I shall begin w.
the diseases of the Artificial System
^{the wish to}

The only division ~~I shall~~ admit
of diseases is into such as affect
the whole, & such as affect a part
of the system. But this is liable to
objections — for genl. diseases often
terminate in such as are local — &
local disease pass into such as are
general. —

Still less proper will be to divide
diseases from the different systems they
affect, for there is no general disease

~~The practice of physic is that branch of medicine which treats of the causes & cure of diseases.~~

~~A Disease is that condition of the animal body in which the actions ^{of the body or mind} are not performed at all, or performed with difficulty.~~

~~The Causes of diseases are divided into remote predisposing - occasional & proximate.~~

~~E.g: Old is the remote & predisposing cause of Hydrocephalus. A blow, a fall, or violent exercise is the occasional cause - The rupture of a blood vessel is the proximate.~~

~~a Symptom is an apparent deviation from health, & is always obvious to the senses. - It is the sign of a disease.~~

~~Symptoms are of 3 kinds. 1) Symptoms~~

that does not affect 2, 3, & 4, and sometimes all the systems mentioned in our pathology. —

The disease called improperly fever shall be the first subject of our

~~✓~~ Symptoms appear in the animal - vital & natural functions. The animal are the organs of voluntary motion - sensations & intellectual operations.

The vital - are those which are supposed most essential to life - such as the motion of the heart - the circulation of the blood - & respiration.

The natural are ^{digestion - appetite} digestion - and the regular discharge of the faeces. —

Distortion: I say improperly called fever - for the word implies internal heat - now many fevers are so far from being caused by heat,

of the disease. 2 symptoms of the cause & 3 symptoms of symptoms. The 1st are symptoms of the primary cause. The 2nd of the remote cause - The 3rd sprung from both & are secondary. Pain - fever - & cough are symptoms of the cause in a pleurisy. If coryza or Angina attend they are symptoms of the remote cause. The difficult respiration is a symptom of a symptom viz pain.

Diagnosis

Those symptoms which taken collectively form the distinction of diseases constitute the diagnosis. E.g.: Stitches at stomach - & the pain being seated in the small joints distinguish Gout from Rheumatism. -

Prognosis

Is a declaration of the issue of a disease taken from the state & degree of the symptoms. -

Diseases are Diagnostic & Prognostic.

that the heat is natural & sometimes diminished in them. It is nearly as proper to call a fever - a pain - or thirst - a want of appetite - for these symptoms of what is called fever as frost heat. You see here quite how much we are shut up as it were to truth ^{in judgment}.

Time will ~~as~~ probably bring ^{all the} names of diseases in the same grave with the names of health.

IV Diseases are general affecting the whole system, and from the same cause, and local - affecting only particular parts of the system & from different cause. 29 fever - a general disease. Cancer or Sthirom a local disease. - They cannot be separated in a course of lectures. The same disease is often both ^{general & local} in its different stages. E.g. Ophthalmia. Philémon ¹ gods. Then & not till

7

29. The asthma is ~~only~~ an ~~epidemic~~ a ~~hereditary~~ disease.
Gloves hysterions - a ~~sympathetic~~ disease.
Diseases are natural & artificial

~~The natural diseases are chiefly fevers.~~
~~66,000 out of 100,000 diseases in Lydenham's time were fevers in London. At present out of 100,000 diseases only 10,000 belong to the class of fevers. Fevers - casualties - war & old age appear to be the only outlets of human life. —~~

~~The artificial diseases are the offspring of civilization. The venereal or nervous disease constitute a principal part of them.~~

~~The indications of cure are founded on a knowledge of the passionate cause of diseases. — 29: If increased excitement is the cause of madness the indication of cure is to reduce it by indolent stimuli or debilitating remedies.~~

~~Remedies are natural & artificial~~

thus will evideince, - be a per-
fect science. In considering the
different states of fever, I shall first
inquire into its proximate cause,
& this I shall do by reading to you
a few pages in the 4th vol. of my
Eng: & Oles: begin: at p: 123 &
~~These pages are a test only~~

The natural remedies are the powers of nature - the artificial are taken from materia medica. - I shall consider the powers of nature hereafter. -

In treating on diseases - an arrangement necessary. wished for by Sydenham - begun by Paracelsus - improved by Vieal - Linnæus - Segar & Dr Cullen. - what order shall we pursue? - ~~from the best to the worst~~ be ~~between~~ three modes - 1 heat - 2 cause or 3rd curse. 1 unnatural - Eg: Thorax - Infl: & dropsy - two of the most opposite diseases. - 2 Best when known - but who can explain the proximate cause of all the nomenclature of diseases? - The 3rd faculty. Eg: 1st the remedy of Malignant sore throat & the ven^{er} Disease.

~~Either to I have followed Dr Cullen. But~~
~~since I had myself ^{more} responsible for~~
~~formerly~~ ~~the manner & matter of a course~~

~~The Order I shall pursue in this course
of lectures shall be first to treat upon
the ~~Geographical Diseases~~ - These will include
the most prejudicial Diseases, & Fevers - in which I shall
include ~~not only inflamm.~~ fevers - but
~~fevers from contagion of every kind~~
Hemorrhage - exanthematosus eruptions
& wth D^r Cullen calls Profluvia -~~

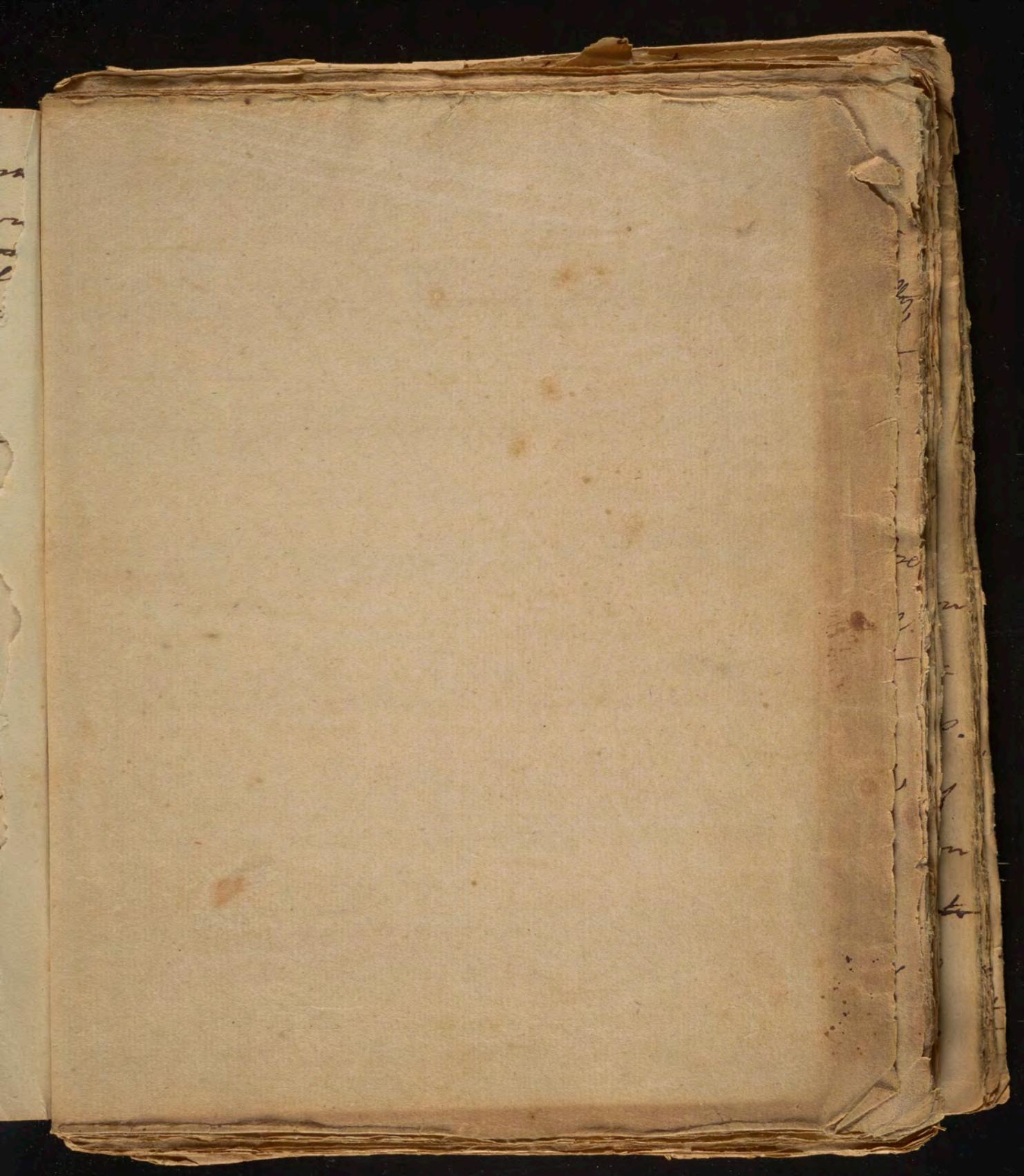
2 nervous Diseases.

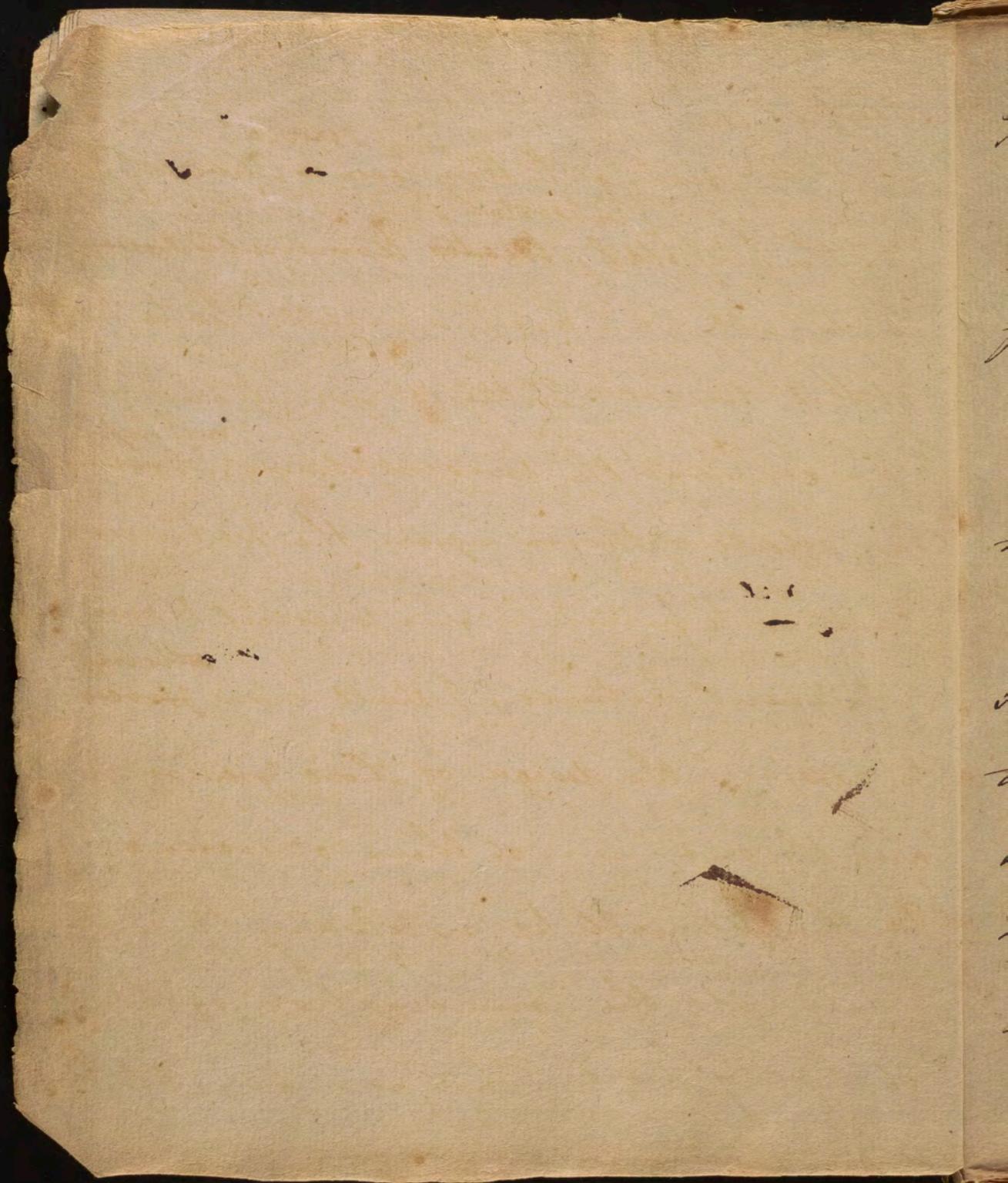
~~3 of Diseases which affect the sense~~

~~3 of Diseases from effusions of
water or air in different parts of
the body.~~

~~4 of Diseases which affect the skin -
color or figure form of the skin and
external parts of the body.~~

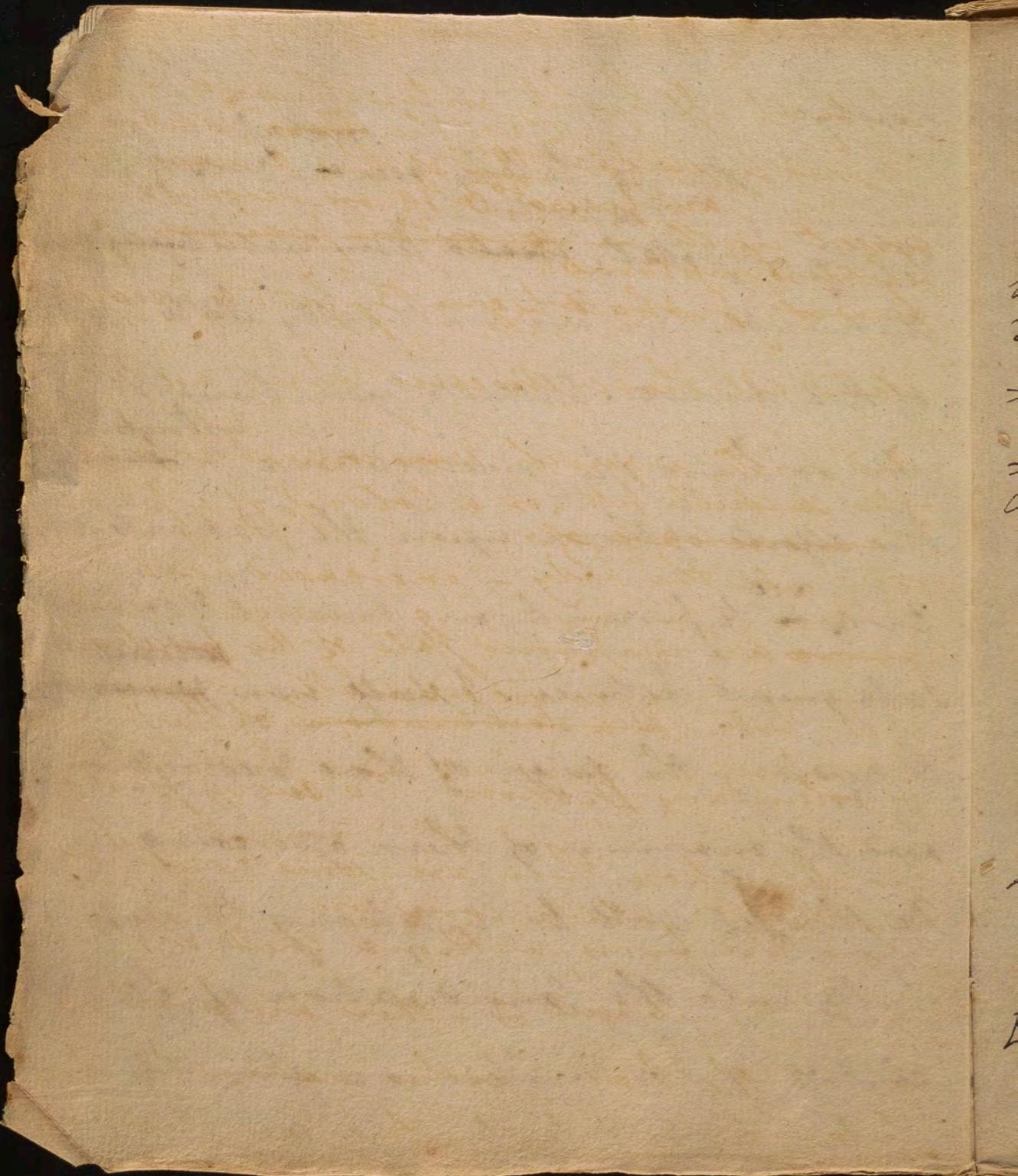
~~4⁵ of Diseases more certainly local
To these I shall add an art of the Diseases of
Women - Children & negroes - also the
diseases of old people - and the diseases
mentioned in the Old & New Testament -~~





Gent^r

Having lately seen ^{several} Cases of fever
in the hospital, ^[viz Worcester] treated successfully,
favourably, we are naturally led to treat
of that disease. Hitherto you have only
seen or heard the prescriptions, & ^{witnessed} ~~seen~~
the effects of them upon the patients whose
cases ^{are} to furnish our present & several
subsequent lectures. I shall now proceed
to explain the design of those prescriptions,
and the manner of their operating. To
do this, it will be necessary to enter
fully into the consideration of fevers
of every kind. This is a fruitful



Subject, & highly interesting to a stud.^t
of medicines for ~~273~~ of the ~~feverish~~ diseases
are fevers ~~to~~ ¹⁴ of the diseases we
meet with in ~~common practice~~²⁰. are
febrile symptoms.

present. I shall begin by fews I understand.

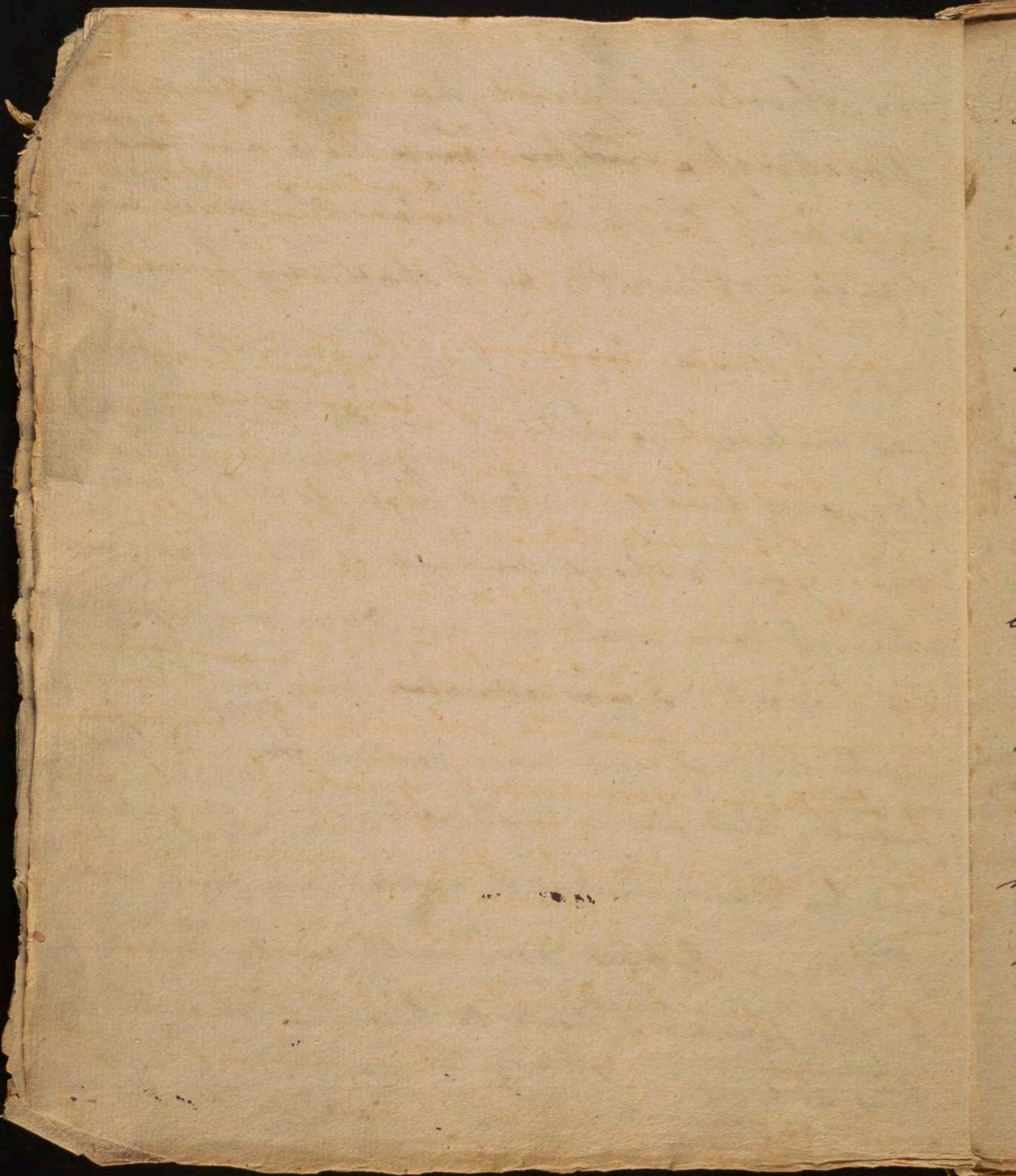
" stand all those diseases which are attend-
ed with a quick & ~~dim~~ convulsed pulse,
after a chilly fit - or a coldness of a part,
- ~~or~~ ^{more especially} of
or of all the body - increased heat, -
and an impaired state of the functions
of the body - & ~~a diminution~~ of the powers
of voluntary Motion". To every part of
this definition there are some exceptions.
There are fevers, which come on
without chills or coldness -
[as the Dumbague & - there are fevers in
which the heat is either natural, or
below it - and lastly there are fevers

V The causes of fevers are four -

predisposing - remote - existing, &
proximate: I shall illustrate each
of them by an example. Debility
is the predisposing - heat preceding
cold, or contagion is a remote -
fatigue, or intemperance is an
existing, and a certain state of the
arterial system is the proximate
cause of fever. - The concurrence
of all ^{the 3} ~~four~~ causes first mentioned
is not always necessary to produce
fever, for it may take place
without either a predisposition
or an existing cause, but this
is seldom the case. -

in which the pulse has no perceptible
quickness ~~and for so~~ ^{very - more} there are ~~cases~~ ^{fevers}
in which the pulse is below the ordinary
standard of health as I shall say hereafter.

I shall begin my inquiries upon
this interesting subject with the proximate
cause of fevers. - And here first: I must
give you a short account of the changes
which I have made in my opinions upon
this subject. I ~~was educated~~ my first prin-
-ciples in medicine were derived from Dr. Boltz-
-hoare, and from his aphorisms as explain-
-ed by Duns-witter I adopted my first ideas
of fever. Soon you will easily conceive
of the pains I took to become master of
this subject when I inform you that



before I was twenty years of age, I
abridged in a large Quarto volume
on Dr Boerhaave's Aphorisms
all those volumes of van Swieten's
treat of fever, and to this day I retain
nearly every important fact of any conse-
quence related in that ^{elaborate} ~~exterior~~ work.
and will tell you that Dr Boerhaave placed
the proximate cause of fever wholly in
Lentor & mortific matter. —

When I went to Edin^r: I was forced
with substance to relinquish this doctrine
of Dr B.^r proximate cause, & embraced
the more rational one proposed by Dr
Hoffmann and ^{first} afterwards
advantages by Dr Cullen - I mean the
doctrine of Spasmodic. This relieved me
from many of the absurdities of Dr B.

✓ notwithstanding the practice, & have
used ~~for~~ ^{it} near 20 years with ~~com~~
~~greatest~~ stand success. For in every part of my
life, I have constantly made all my
theories ~~go~~ ^{bind} to facts, and not my facts
to theories & for I have in all my studies
I have ~~had~~ pursued truth above all things, & in
~~all things~~ ^{may be} ~~the supreme good of my life~~
& this I know can only be attained, by
making theories bind to ~~theories~~ ^{parts}, & not
facts to theories. —

theory, and for a while I believed ^{it} ~~it~~ as in
in the extremities of the capillary vessels
to be the proximate cause of fever.

Soon after my settlement in this city in the year 1769, I found that this theory did not accord with or explain all the phenomena of fever. The first thing that shook my confidence in it was the efficacy of blood letting in ^{certain} Intern fvers. This I at once saw could not be exp'd upon any of the principles of D'Ullin's Theory of fever, ~~and indeed~~ I adopted ^{I have mentioned} from that time, I floundered on upon an ocean of Doubt & Uncertainty as to the proximate cause of fevers for many years. Many painful hours have I spent in contemplating this subject. at length - however light broke in upon

my mind - and I enjoyed for a while the transports of the Greek mathematician - But whether ^{these transports} they ~~are~~ were as truly founded - must be left to your determination. - One thing - I can say with great pleasure that - since I have adopted the theory I am about to deliver, my practice in fevers has been more successful than it was while I adhered to ^{very} former principles. My practice has moreover been attended with less anxiety in the treatment of fevers - for my theory serves as a lamp to ^{guide me} ~~say~~ ^{difficulty} ~~that~~ in every ^{moreover} ~~fever~~ that occurs in ~~that~~ those diseases. It has ^{likewise} served another purpose - it has thrown a light upon ~~on~~ the proximate causes of several other diseases.

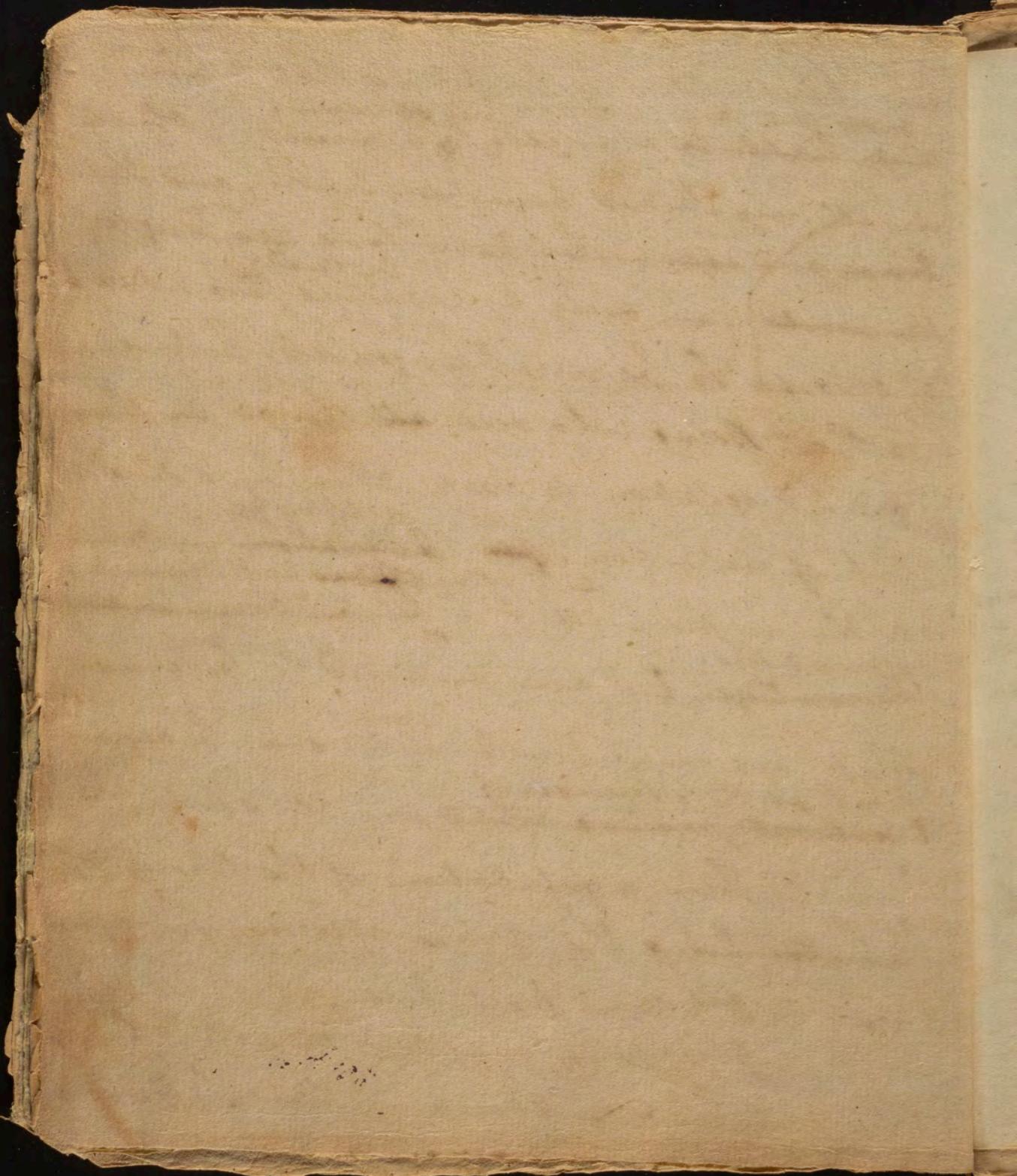
I ~~do~~ ^{now} feel no shame ⁱⁿ vent.

V I am the more satisfied with
having deserted the theory of ~~Spinoza~~ my beloved &
venerable master since I have heard that
it is deserted by ~~most~~ of his pupils in
Britain & Ireland, and that at present it
is ~~no~~ longer taught in the University
of Edinburgh. ~~Some of you have been~~
~~told by the Professor~~

in this publicly confessing that I ~~have~~
more than once ~~been~~ ~~not~~ ~~able~~ ~~to~~ ~~change~~ ~~my~~ ~~opinions~~
in all my studies have been ~~truth~~ ~~very~~ ~~objects~~
~~time~~ ~~and~~ ~~experience~~ ~~have~~ ~~long~~ ~~ago~~ ~~taught~~
~~the~~ ~~hand~~ ~~can~~ ~~only~~ ~~be~~ ~~attained~~ ^{by} ~~trading~~
of ~~error~~ ~~To~~ ~~be~~ unchangeable, belongs only
to that Being who sees all things in their
order & relation to each other by a single
act of intuition. ~~The~~ ^{a change} ~~alteration~~ ~~in~~ ~~opinion~~
~~is~~ ~~the~~ ~~necessary~~ ~~effect~~ ~~of~~ ~~all~~ ~~additions~~ ~~to~~ ~~our~~
~~ideas~~, ~~Knowledge~~, ~~and~~ ~~I~~ ~~am~~ ~~disposed~~ ~~to~~ ~~believe~~
that ~~no~~ ~~new~~ ~~truth~~ ^{can} ~~will~~ ~~ever~~ ~~be~~ ~~acquired~~,
but ~~at~~ ~~the~~ ~~expense~~ ~~of~~
~~without~~ ~~parting~~ ~~with~~ ~~an~~ ~~old~~ ~~error~~. ✓

For a refutation of the theory of
Lentor being the cause of fever, I refer
you to Dr. Muller's first lines.

I object to morbific matter being
the proximate cause of fever; Because



~~proximate cause~~ -

~~Beyond~~ Contrary to custom I shall
begin th proximate cause - of most proper
- the material ~~order~~ in the mind - we
always begin th it, before we proceed to
remote - occasional - or predisposing -

~~We rejected last~~ - Shall now only enquire
whether mortific matter is - Dr Bouscaren
opposes it is. - ~~object~~ 1. Flowers lost or
by frights & other causes th cannot produce
matter. 2 They are cured by lightning -
Electricity - Passions of the mind & things
which neither destroy or evacuate it.

3 Flowers are cured without evacuations.

4 Bark. - by no dermomy or morbid
quality in sweets or sediments in
the Urine. are accidental as we
shall shew hereafter. 5 Effluvia - are
of fever.

The remote causes, not proximate, in -

~~I acknowledge that I have no ambition to be the author of a new system of physick. I know full well how much the charge of being an innovator, or a man of fanciful or speculative clay for the philosophy or manners, then established talents, & affects both the reputation and position of a physician. That should not be the business of a ~~new~~ physician. D' Harvey lost both by publishing his discovery of the circulation of the world. But after the declaration I have made, that theory is not only ~~unavoidable~~, ^{useful, but} in compliance with the obligations I owe to this chair, I shall, at the risk of reputation & even the means of subsistence venture to deliver one, ~~for the sake of truth~~ allow~~

arise
absupes ¹¹ from diminished excitement in the
extreme vessels — humor ^{are most disposed} stagnate ^{they} under the
surface of the body, occurs in madness, &
yet who ascribes madness to morbid matter.

~~Dr. Cullen supposes a spasm on the capillary vessels to be the proximate cause of fever. This is Haffman's opinion likewise. I object to it being the proximate cause of fever — 1 because it will not explain the phenomena of fever. 2 Because it is a temporary & accidental effect, & not the cause of fever. 3 Because many fevers appear evidently to exist without any such such spasm.~~
Dr. Brown's theory of fever cannot be
Dr. Brown's theory makes fever to consist in too strong, or too weak exciting power. — This extends no further than a predisposition to fever — and does not distinguish it from the operation of exciting, or debilitating powers on a healthy body. — I shall proceed to deliver the proximate cause of ^{which has} been the result of the inquiries before me.

V It has moreover ~~recommend~~ ^{the advantage of} simplicity, to recommend it, for I believe we tried to perfection in all inquiries in science in proportion as we arrive at single principles. As love is the great principle of activity in the moral - and Attraction, in the ~~inanimate~~ natural world, so I apprehend that a principle equally simple, ^{only} is the principle of life & activity in the animated world.

V This inquiry will be useful, for
all the mistakes & want of success in
the cure of fever are owing to an
ignorance of what a fever is, & to the
cause of all ^{the} symptoms which
attend it.

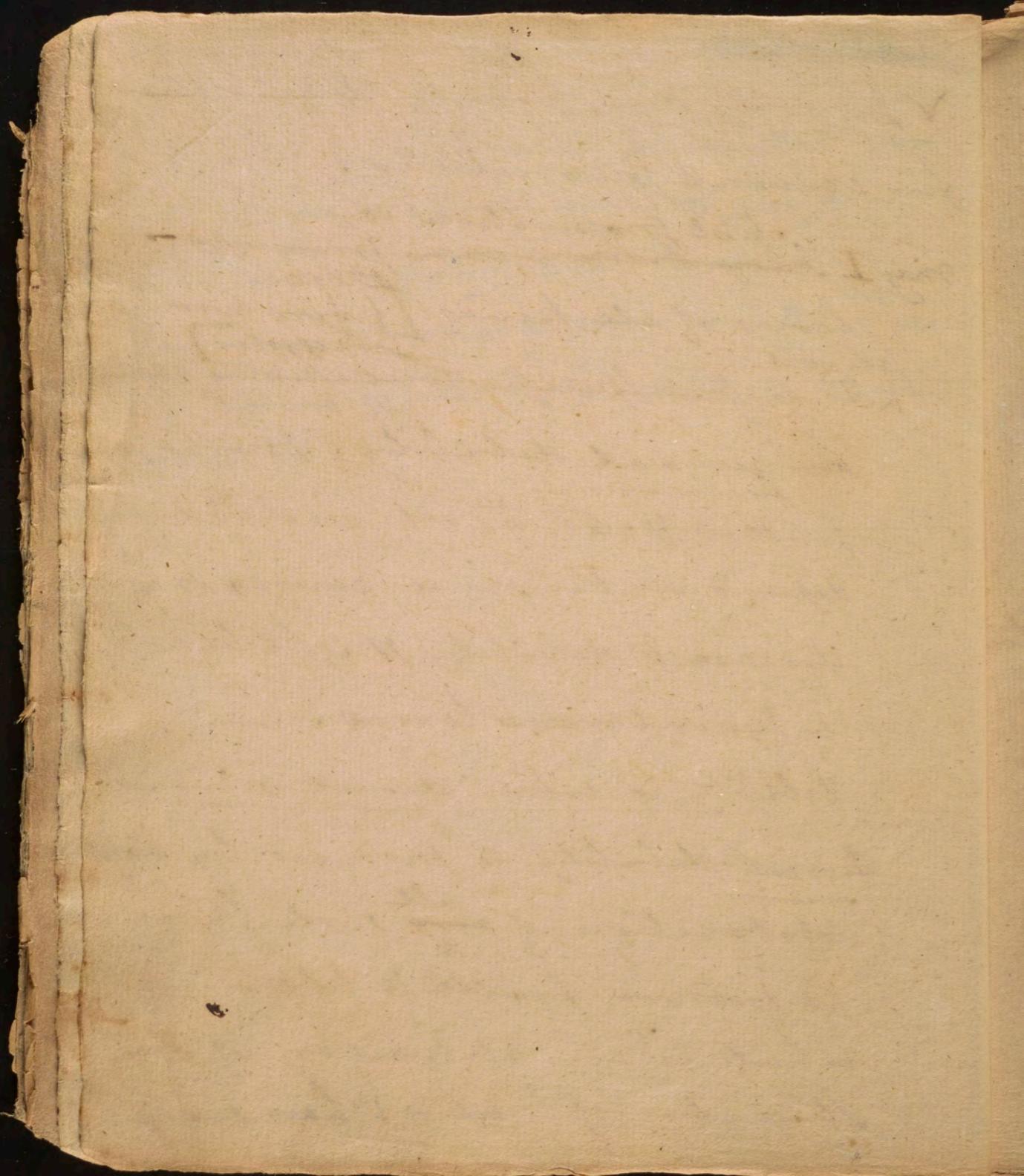
✓ In doing this, I shall deliver the
four general propositions:

My first proposition is,
my I say it does on principle.
fevers of all kinds [from wounds
poisons & a few specific contagions ^{those} excepted] depend.

on general debility: I might go
further & add ^t: all general diseases
depend on the same causes so ^t: —
disease & debility might be used
as synonymous terms. —

Debility is either direct or indirect.

Direct debility is produced by an
abstraction of ^{all} such stimuli
as produce health & life. Cold
which is an abstraction of the
stimulus of heat - & hunger ^{etc}.



is the abstraction of the Stimulus
of food - ^{also -} grief & fear which are
Abstractions of ^{the Stimuli of} joy & hope - all of
which induce direct debility.

Indirect debility is the result ^{in the} of
the ~~physical~~ action of Stimuli on the
body. Heat above 96° or 100° - labor
or ~~heat~~ which induces fatigue - and too much
food or drink all induce indirect
debility. —

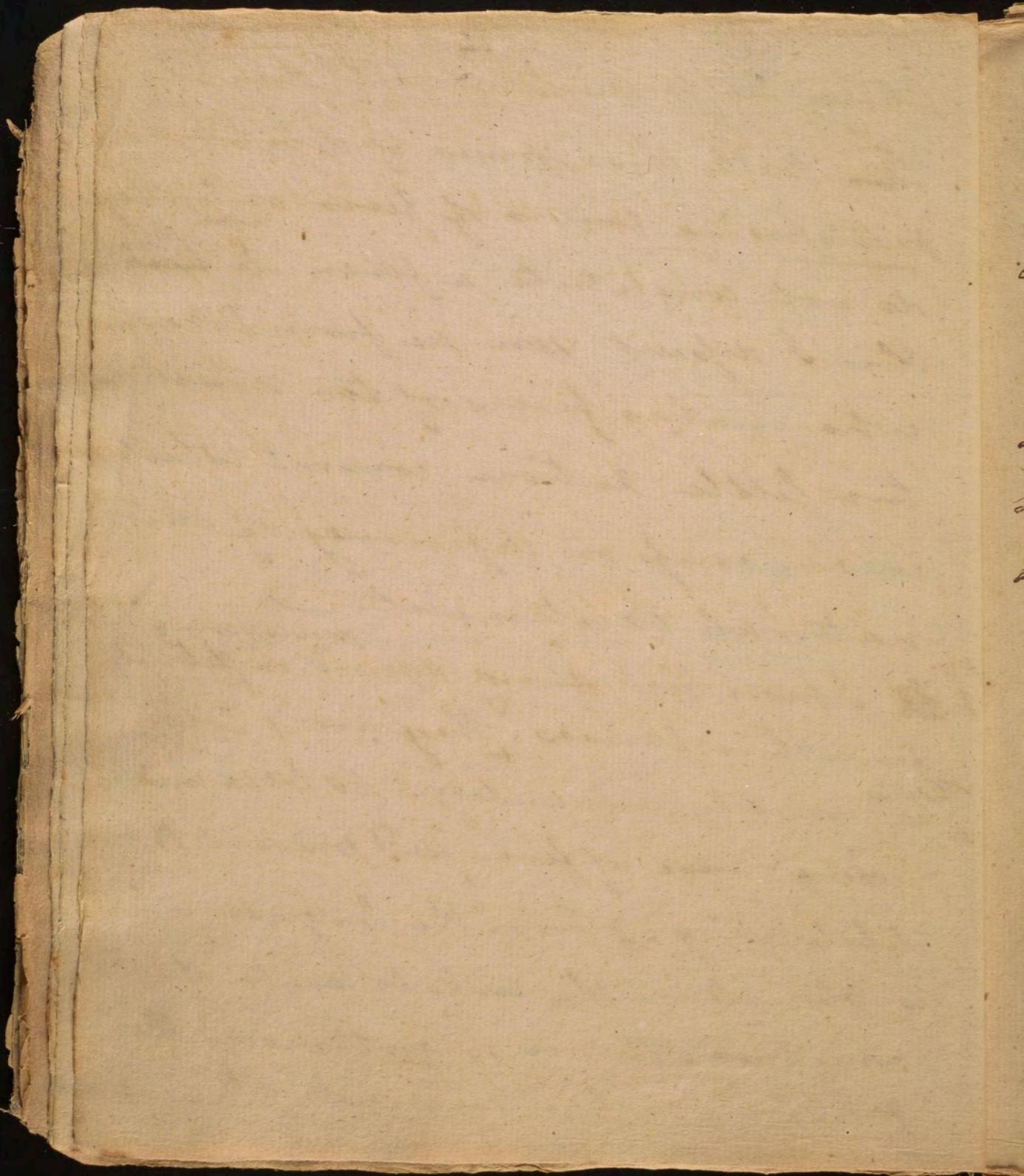
There is all bodies a certain healthy
point of existentent. I shall suppose
it 40°. — ~~as~~ ^{as} by the abstraction
of natural Stimuli by reducing
the system below 40° produces direct
debility - the increase of the force
of Stimuli by raising the system

5 I shall first mention the
causes which induce direct then
those which induce indirect de-
-lity. I shall begin with the
first, & such as are direct.

14

Above we produce indirect debility.
This Both these species of debility are
predisposing causes of fever only. They
do not constitute a fever - & ~~less~~ⁱⁿ
this I direct you see from D Brown
who makes fevers of too much heat
two little actions consist wholly
in an excess or deficiency of this
natural excitement.

1. I prove that fevers depend on debility
from this causes. ^{predisposing} They are 1. Cold.
This is universally acknowledged to be a predis-
posing cause of fever, & I prove it to be
debilitating. I know the languor which
is observed in the inhabitants of cold
countries. This is so notorious that
Dr Wilson in his Account of Climate



defends domestic Slavery in cold as well
as hot countries. The one ~~but~~ ¹⁵ says by
inducing direct debility & the other
by inducing indirect debility produce that degree
of indolence & weakness which he
says can only be overcome by the
stimulus of the whip. But forgets
here that fear - the only principle
of action in a slave counteracts by
its debilitating effects the stimulus
of his instrument of tyranny! I
infer further ¹ cold is debilitating
from the languid pulse of ² inhabi-
tants of Greenland. being only 40, or ³ to
50 strokes in a minute.

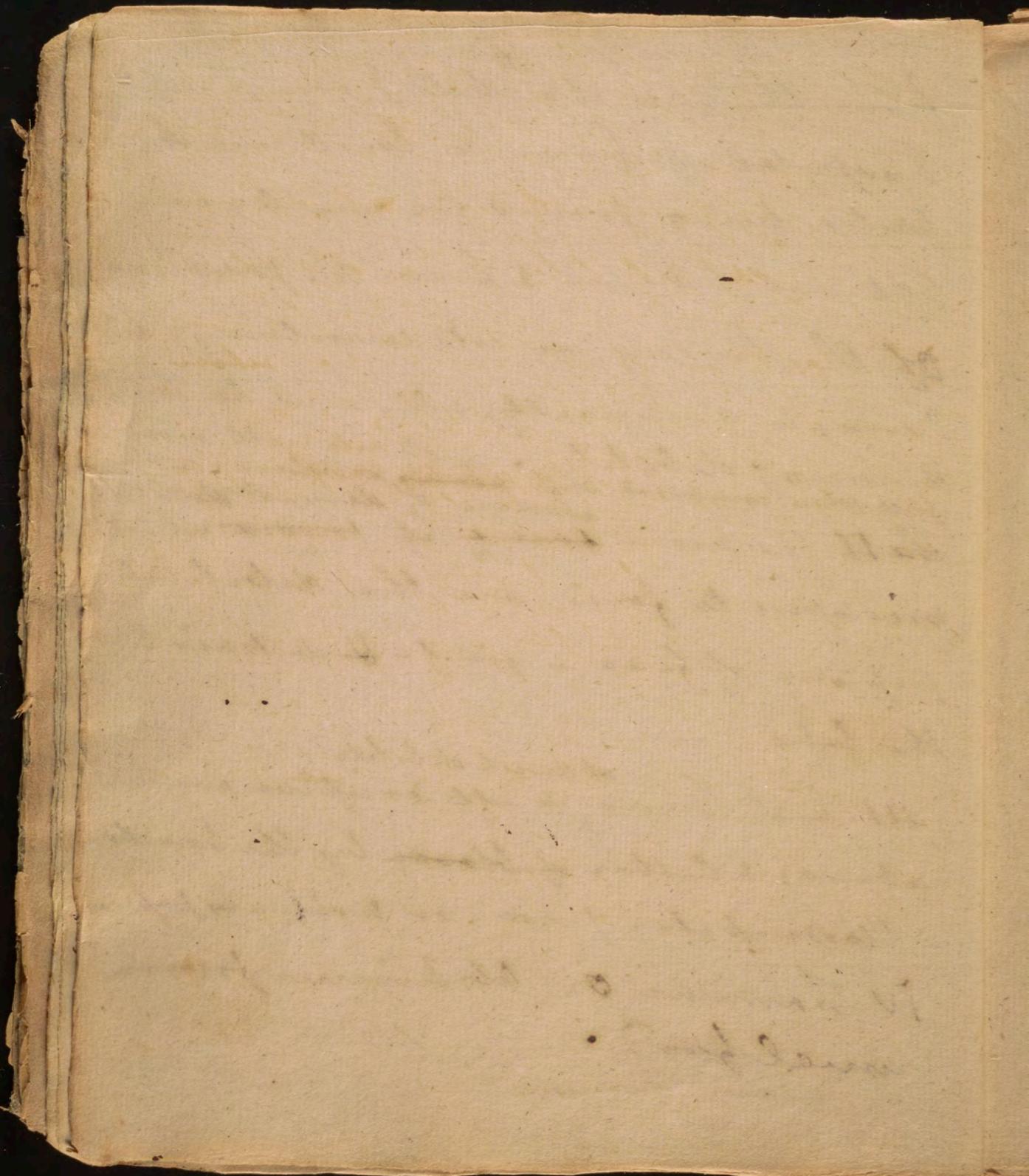
2 I infer it from astral exp^{ns}
made by a pupil of Dr Brown, -

16

from the case of a Child I saw at the
Hospital - & from a low & weak
pulse being found in an Ameer
left out bed. — 3 From the prevalence
of the Scrovy in cold countries, now

Scrovy is universally allowed to be a
disease of debility. It acts with most
force when combined with ~~slight~~ moisture. —
III. The second ^{source} of direct debility
predispose to fever are the debilitating in-
spicions of fear - grief - & despair &c. —
the like. —

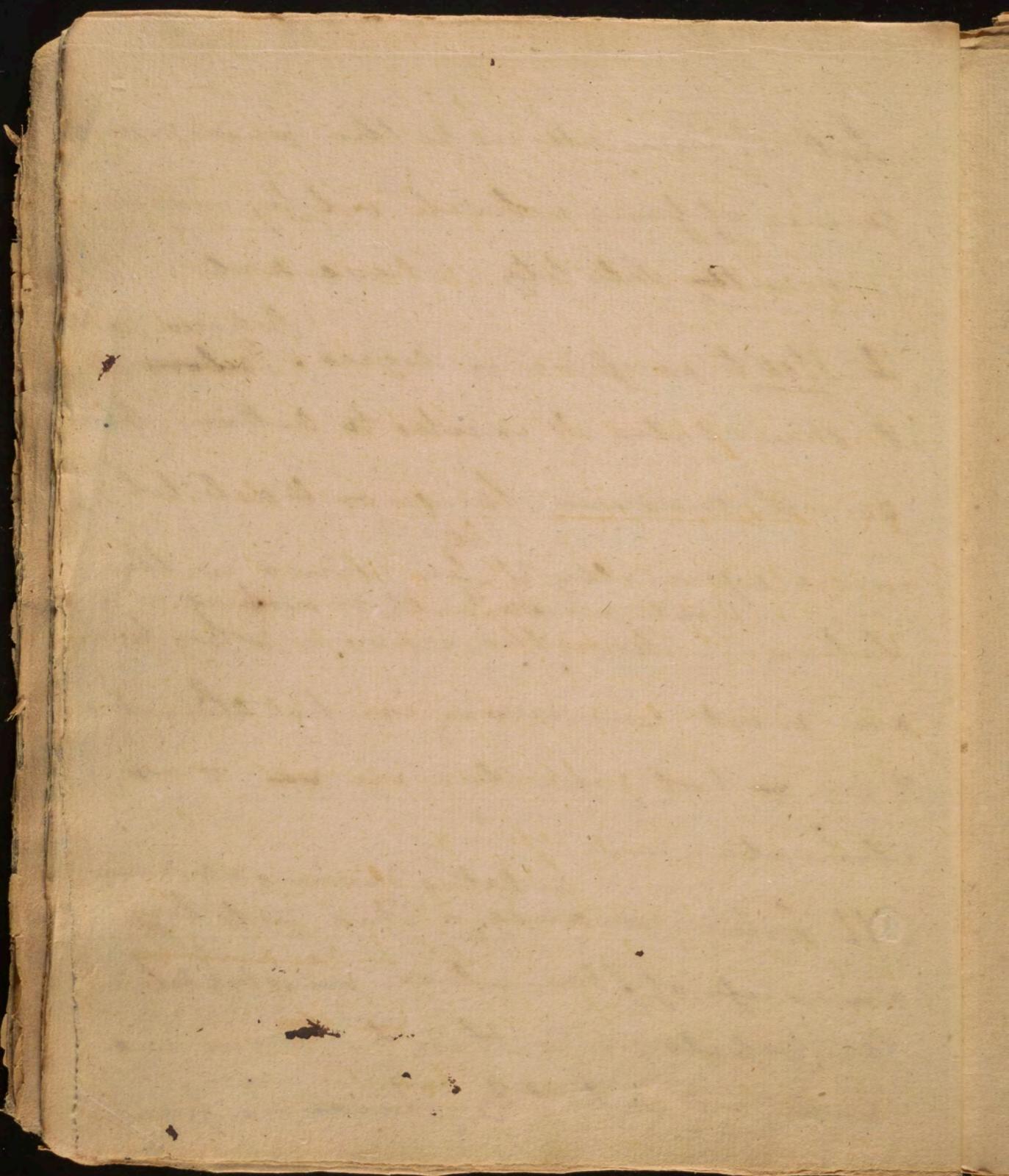
IV. a 3rd ^{source} of direct debility
is all excessive evacu-
ations, whether of blood by the bowels -
blood vessels - pores - or urinary passages. —
V. Famine or abstinence from
meal food. —



Let us now attend to the predisposing causes of fever which act by inducing indirect debility. These are

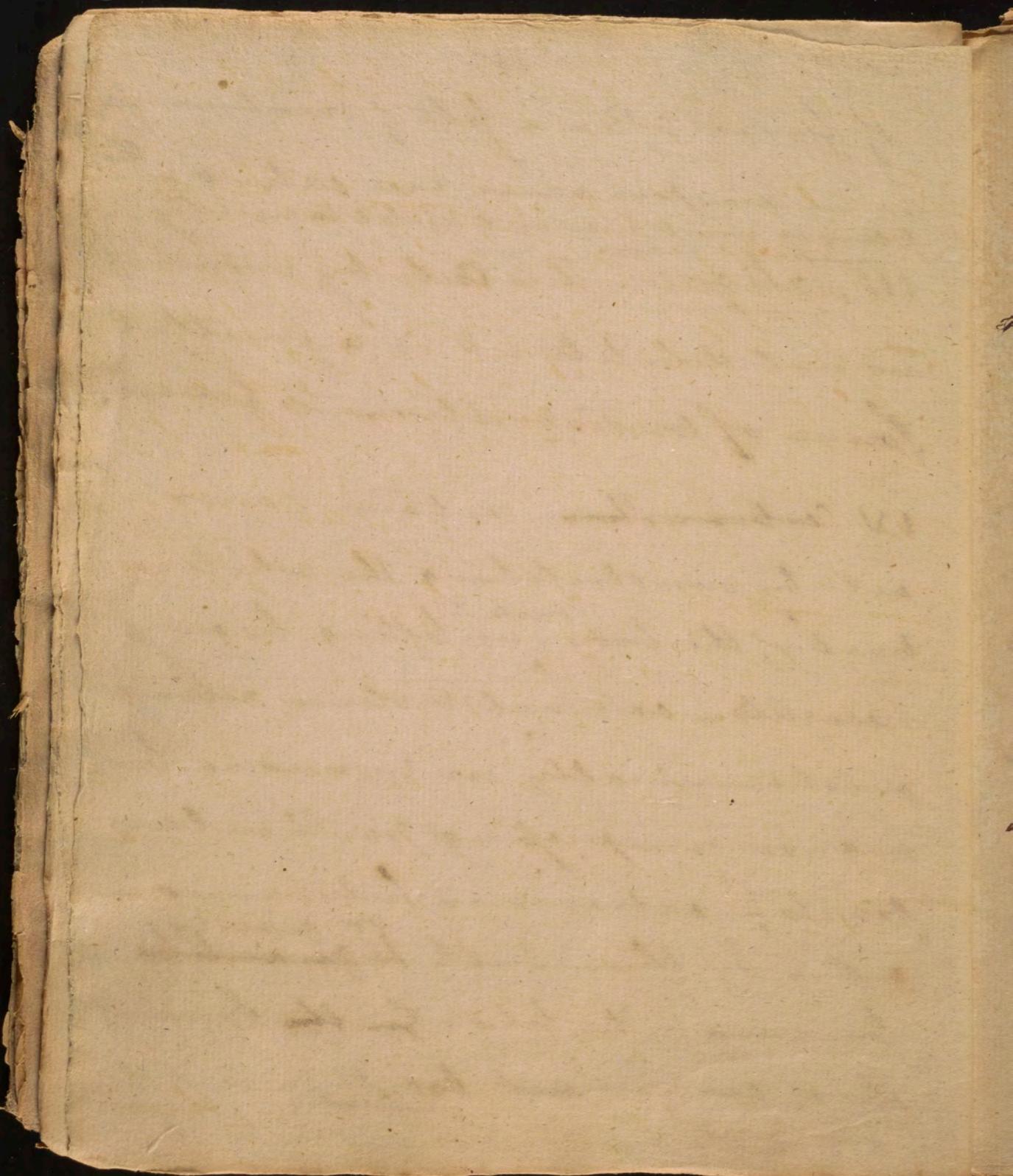
I. Heat excess in degree. Between 70 & 80 it stimulates & excites to action. Above 90 - it produces languor & debility, more especially if ^{it} be joined with & still worse with moisture. - labor. - Hence the reason why fevers are most common in hot climates & in so hot weather in our climate. —

II. Intemperance - This acts by an excess of stimulus overwhelming the vessels, and thereby inducing indirect debility. Hence the frequency



of fevers after a fit of drunkenness
or in temperance in eating — the
plague most frequent usual to newly
married men.
III Malaise — This acts by inducing
indirect debility — & is a fruitful
source of predisposition to fever.

IV ~~Causes~~ ^{ch} certain causes ^{act} _{in}
act by overstretching the whole or a
part of the body ^{such} as lifting heavy
weights — external violence acting
mechanically in wounding — bru-
ising — or compressing particular
parts — extraneous substances in-
acting by their bulk ^{or gravity} & ~~generally~~
burning & the like. For ~~the~~ some of
these causes act locally — but they
affect the system secondarily by



exciting in it ¹⁹ and ~~and~~ ~~not~~ debility. &

There are causes also of fever which act without predisposition, such as small pox & measles - Influenza - plague &c - but all these are rendered more dangerous ~~by~~ by the predisposition of fear - fatigue & so on other directly or indirectly in debilitating causes. —

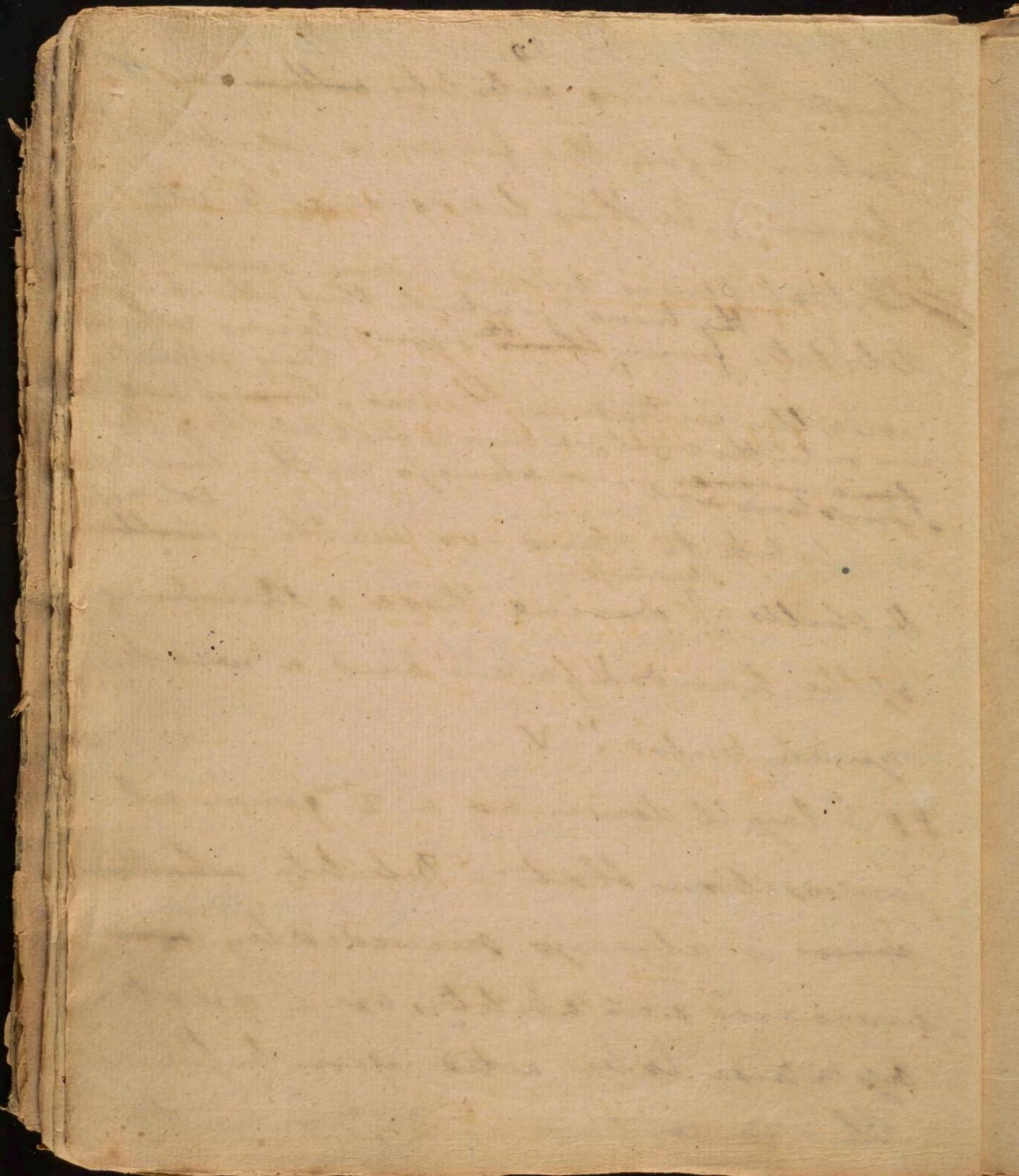
There are two species of fever viz from marsh miasmata & human effluvia which are rendered more or less certain & violent ^{in their operation} by being more or less accompanied by the predisposing causes that have been mentioned. They ^{all} act by their

V all the causes of fever act
in proportion as they are combined.
E.g. cold - grief & fear act more cer-
tainly than either of them separately.
Heat - fatigue - & intemperance in
like manner when combined, act
with more force than alone. —

first inducing debility either in the system before the fever is completely formed. & this leads me to add

~~no. 13.~~ that fevers depend upon generally debility from ^{the time in which they attack} the system, towns which usually introduce them. They generally come on in the night, - a time of most debility; The ~~fever~~ ^{fever} ~~weakness~~ ^{weakness} in the limbs, symptoms are - coldness, ^{weakness} in the limbs, ^{weakness} in the hands & face - and a weak quick pulse." V

It I lay it down as a 2nd general proposition that - "Debility whether disease is always succeeded by an increased excitability, or a greater aptitude to be acted upon by stimuli. This is confirmed by Dr. Brown to



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direct debility - but it extends to
indirect debility - especially if it
be lost ⁱⁿ suddenly, ~~before~~ ⁱⁿ which case
the excitability ^{is} only suspended
but not exhausted. —

My 11th ^{2d} general proposition is
that the diminution or abstraction
of one stimulus is always followed
by an increased action of others. —
This I taught you in the lectures on animal life. —
Let us ^{now} apply these principles

to the production of fever

Has the body been debilitated ^{by long exposure}
to the ^{thereby} cold - ? - its excitability is encrease-
-ed - and the heat acts upon ^{it} with
increased force, - hence the frequency
of Pleurisies & other inflamm'dis-
-orders

The Abstraction of Heat

2^{ly} Has there been an abstraction of heat by a sudden change in the air, or by a cold night succeeding a warm day? - ~~or by being~~ a fever is frequently excited - this is obvious every autumn in the bilious fevers of this city. The ~~microcosmata~~ or Contagion acts with double force ^{during} ~~after~~ the debility induced by the cold.

in the Spring after a cold winter -
 & of bilious & remitting fevers in the
 autumn when warm days succeed
 to cold and damp nights. The
 Plague ~~the illumination~~ ^{is} an ^{old} & ^{common} ^{cause} ^{of} ^{the} ^{fever} ⁱⁿ ^{the} ^{country}
 plateau ^{is} ^{an} ^{old} & ^{common} ^{cause} ^{of} ^{the} ^{fever} ⁱⁿ ^{the} ^{country}
 time in the open air, but generally
 after the body ^{is} ^{been} ^{exposed} ^{to} ^{the} ^{cold} ^{air}, & afterwards
 to the heat of a warm room over
 a warm bed. — I have frequently
 observed intermittents to acquire an
 inflam' type in our hospitals
 in Nov. & Decem' — probably from
 the stimulus of the heat of our
 stone rooms upon bodies previously
 debilitated by cold & disease! —
 3: Has ^{the} ^{body} ^{been} ^{debilitated} ^{to} ^{the} ^{cause} ^{of} ^{the} ^{fever} ⁱⁿ ^{the} ^{country}

2

18

by fatigue? - ²³ Its excitement is
thoroughly diminished, but its excitability is
increased in a ratio so much above
its excitement - that the stimulus
of a full meal - or an intemperate
glass of wine often induces a fever
if taken immediately after it. —

Hence the frequency of fevers in
persons upon their return from
travelling, - Surveying, - long rides,
and from a military cam-
paign. — ^{A fever from the} The last ^{cause} was very com-
mon during the late war. A
hot pepper, & afterwards the heat &
of a warm bed, sometimes induce
not only fever but a convul-
sion of

✓ This connection of ~~excitability~~ excitability
with debility has lately been pointed out
by a French Physician. He calls it
"Laxiti vibratilité". - by which he
means a liability in the system to be
thrown into vibrations or motions by
the predisposition of debility. There is
nothing ~~more~~ peculiar to animal matter,
in this law of our system - we see it in
many species of inanimate matter. They
become mobile (if I ~~see~~ may be allowed
the exception) in proportion to their tenacity.
A ~~piece~~ of what ~~this~~ ^{it} we see every day in
certain metals - and above all in whalebone
& in some species of elastic wood which yield
to impulse or impression, in proportion as
their ~~solidity~~ ^{it} answers to animal ~~excit~~
~~ment~~

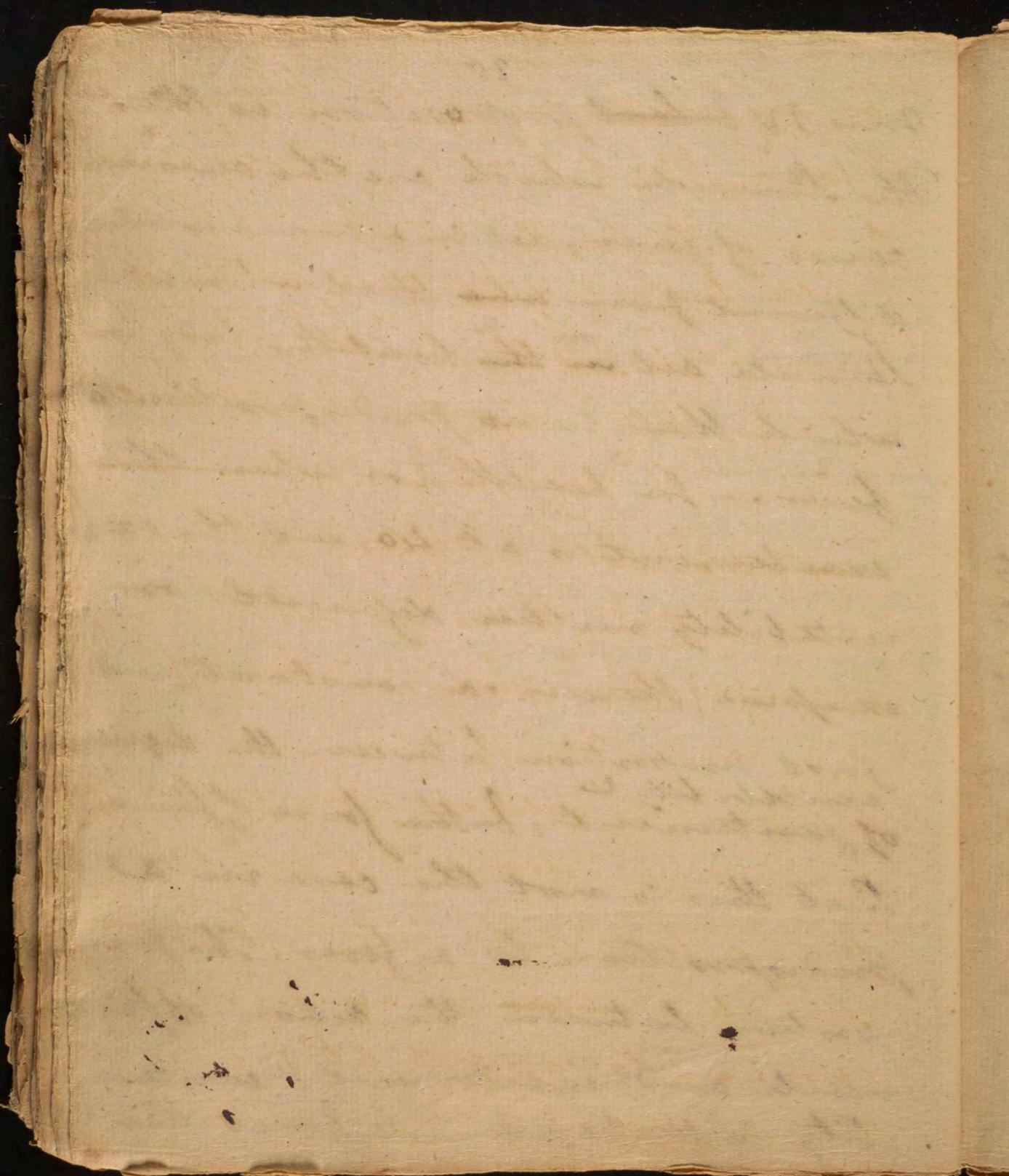
in the nervous system with it, in many persons the night after they returned from the coarse diet, ^{of the camp} and heat, and from sleeping on the ground or on a floor. The convulsive fever was occasioned by the supper & the warmth ^{but} — the ^{in the nervous system} convulsion, by a too sudden abstraction of stimulus from the softwep of a feather bed. —

I could go on, and then in like manner that fever in every case is ^{burst} on by overoad stimulus acting upon diminished excitment & increased excitability. ✓

is more ^{is} or filed away by the hand of an
Artist, or worn away by time.

That this ^{disposition to motion} vibrability or excitability in
animal matter is the cause of fevers, is further
evident from ^{this} occurring ^{it} in those
~~Childhood &~~ stages of life in ^{it} ~~it~~ fevers are
as most common - as in Infancy - child
- youth & middle life. fevers are ^{less} common
in old age - for the vibrability ^{as connected w.}
of the arterial
system in which I shall say presently, the
proximate cause of fever is seated, generally
dullness in old people - It even appears in the
Skin. 29:

My IV & last proposition is, that
 the Stimuli which are the occasional
 cause of fever, act in a manner wholly
 different from what that in which
 Stimuli act ^{on} in the healthy body in
 which there is no predisposition to
 fever. — In health — [or when the
 excitement is at 40, and the ex-
 citability neither deficient, or
 excessive] there is a constant and
 just proportion between the degree
 of excitability &
 of excitement, & the force of stimuli.
 But this is not the case in a
 predisposition to a fever. The pro-
 portion between the action of the
 stimuli and excitement & excitabi-
 lity is destroyed — and hence the



26

former act upon the latter with a force that produces irregular action, or a species of convolution in the system. — When the system is debilitated, & its excitability increased, — it is debilitated, with fear — Damps — or Silence — a sudden noise occasions a convolution. in the whole body. We awake in the manner in a convolution after the accumulation of over excitability by a nights sleep, from the sudden opening of a door, or from the fall of a few drops of water on the face. In short, it seems to be a law of the system that ~~the~~ stimulus ~~supra~~ in an over proportion to excitability, either produces convolution — or goes so far

It possesses irritability or stimulus, according to the experiments of Mr. Dufour - and according to an observation of Dr. Boerhaave ^{who} saw it inflamed - and even its ^{parts} ^{had been} black & suffused with blood in an ox ^{which} was killed unmed. After being violently heated by running away. The termination of the arteries in the skin is demonstrated by the discharge of arterial blood from a puncture made into it - hence they are so easily affected by external stimuli especially cold & warm air. See Dr. Haller on the structure of the

27

beyond it, as to destroy action also
together.

My v prop: is "that the stimuli
which induce ^{the} irregular action or
convulsion act primarily on the
nervous & particularly on the
arterial system. This system per-
vades every part of the body. It
terminates on every part of its
surface, acts in which I include
lungs and alimentary canal
as well as the skin". This action
in the Arteries is exsipic or deficient
according to the force of
the stimulating causes.
indeed the exsipic action is produced
by unequal excitement. Hence we
find the pulse full or strong
& action of the heart & arteries

Artemio & Vains who speaks in three
places (p: 14, 21, 32. Cullen's edition) in terms
directly to our purpose. -

My vi proposition is, that there
is but one fire in the world. However
~~strange it may sound~~ - I repeat it again
- There is but one fire in the world -
using - Remotest, & existing causes of fire
may be - whether ~~heat~~ direct
or indirect - whether ~~heat~~ marsh
or human mismanagement, or heat -
succeeding to cold - whether - a full meal,
or a fight - Still I maintain that
thus fire is the same whether from lightning,
friction, ~~perception~~, or voluntary fire. - of the three
I found this progression ~~appear~~ all
of fires upon their having only one
proximate cause. It is important
to the multiplication of fires ^{especially of} ~~as~~

is increased, while the Stomach-bowels
and muscles exhibit marks of
gave a continuance & even of an
increase of debility. The remains of
the excitement of the whole ^{body} ~~system~~
appears to be concentrated ^{as it were} in
the arterial system. [Here we
behold evidently this debility, and
excess of excitement in different
parts of the system: I shall ex-
plain the cause it hereafter in
accounting for the symptoms of
fever by the principles which I
have delivered.] ~~In the mean while I~~
I shall now
proceed to deliver the proximate cause
of fever.)

in the world
done great mischief ~~in medicine~~. It is
founded in ignorance. I have called
it the paganism of medicine. ~~any~~
~~of~~ neither
~~System~~ ~~knows~~ ~~any~~ ~~medicine~~ nor ~~folks~~
neither ^{have anything to do with} ~~Plato~~ nor ~~Procrissine~~ ^{my theory of} ~~fever~~. It is an
Unit, and all the numerous names
which have been given to ~~the~~ ^{its} different
grades and states, I consider as modifica-
tions only of one simple ~~singular~~ ^{dangerous on}
disease, seated originally in the arterial
System. I shall proceed now to ~~describe~~
this disease for in other words to
mention the proximate cause of
~~all the~~ ~~fever~~ -

My VII proposition is ~~that~~ ~~as~~ which
follows from the two last is, that as
all fever is seated in the arterial
System, ~~and~~ ~~and~~ ~~as~~ it follows of course
that there are all those ~~local~~ diseases

~~Having proved that debility is the predisposing cause of all fevers, not excepting those of the most inflammatory kind, I proceed next to deliver the proximate cause of fevers.~~

This I take to be an irregular action in the arterial system accompanied with deficiency of the vital or moving power.

- Between the excess and deficiency of

action in fever there is a certain intermediate state of action compounded of both.

It is called partial excitement by Dr. Cullen.

The asthenic inflam. or by Dr. Brown. Phille. to call it typhoid action.

I have called the action of the arterial system in fevers ~~reg~~ irregular to distinguish

in the world

which are connected with primary
sens., should be considered as its symptoms only, and not as original dis-
-cases. - E.g: a pleurisy - an angina -
an hydrocephalus internus - an inflam-
-ation of the liver - Stomach & bowels - when con-

+ It is observable after the crisis of a fever during convalescence.

met with primary fever
met with an original ^{they} are for all
except when ^{they} arise from local stimuli
nothing but Symptoms of a morbid
State of the Arterial System. This
view of febrile diseases turns all
our old Systems of Physic upside
downwards. — It ^{involves in it,} requires as
great a break of all ancient
operations of ideas in medicine, &
as ^{to adopt its} the principles of democracy
produce in minds accustomed to

it from that ~~weak~~ & deficiency of action
which takes place after violent exercise,
in the former, and after fatigue, or ~~after~~
~~the~~ any debilitating power in the latter
instance. ^{& w^{ch} constitutes Dr Brown's pro-} instance. The Action of the Arteries here
is irregular, and ^{when felt in the pulse} affords a very different
perception to the mind from that ^{ch} we feel in the pulse of a patient labouring
under a fever. —

I repeat it again — that
I ~~do~~ ^{do} ~~not~~ — This irregular action in the
Arterial system in fevers, is ⁱⁿ other words
nothing but a convulsion in the Arteri-
al system. — It appears to be seated
in the muscular fibres of the Arteries.

That this is the case I infer from the

in the world

monarchy & aristocracy in government.

Having delivered thy preliminary propositions, I proceed next to inquire into the proximate cause of fever. — turn back to p: 29.

V I shall briefly enumerate ~~the~~ all the instances of ^{this} analogy between a fever, and ~~it~~ a convulsion in the nervous system.

~~I~~ Do convulsions depend upon previous delirium? — So does the fever.

most only of the

pp. 31

following considerations.

1 A Fever is preceded by Debility - now Debility always precedes Convulsions. -

2 From the sensation excited by the pulsation of an Artery in a fever. It is accompanied with that jerking, which attends Convulsions. -

3 From the great analogy between a fever and a Convulsion in the Nervous System. — V

2 Do tremors precede convulsions in the Nervous System? and are they the first degree of them? So they are of fevers.

3 Does a coldness in the extremities

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20 32

the 2nd symptom of convulsion in the
nervous system? - So they ^{it is} of fevers.

4 Are convulsions in the nervous system
attended with alternate action & repulsion,
so they are in the ^{fevers.} ~~nervous system.~~

5 Do convulsions ~~not~~ of the nervous
system return at regular & irregular
periods? - So do fevers. -

6 Do convulsions in the nerv: system
under certain circumstances
impair the functions of the brain? So
do fevers. -

7 Are convulsions in the nerv: system
attended with ^{of irregular} excess & deficiency of regular
action? - yes - they are ~~this not shall~~

191 Are certain nervous diseases
particularly Convulsions followed by
immobility of the limbs? to those
one fears - This I have seen after
Typhus - & Dysentery & ~~liver~~ ^{all} board
of it after the small pox. - It is in
both systems a favorable sign. -

101 Are there certain nervous diseases
which affect the limbs, without affecting the
functions of the brain such as Chorea ^{Tetanus} - etc
& Migr. Eyes; case.

part only of the
same ~~but~~ ³³ ~~but~~ ²⁴ to be exact. The former ap-
pears in Hydrophobia, & the first stage of
Saturnus. The latter in Hypochondriasis &
Hysteria. The same extremes appear in
fever - as in Rheumatism or Pleurisy,
& the typhus morbus. -

8 ^{my} There are intermediate degrees of
action in the convulsions of the Nervous
System. Yes - there are - They appear in
Epilepsy & Hysteria - & there are in
fever. These intermediate degrees of
action in fever are the ^{in typ: fever or} ~~synthesis~~ of
fever of mixed action to be explained hereafter. V
Dr Cullen. *

+ From all these facts & analogies I do
not hesitate to admit convulsion in
the nervous system to be the proximate

So there are of fevers - particularly all
fevers which seldom produce head aches,
or delirium. & frequently do not confine
a patient to his bed. —

11 Are convulsions most apt to occur
in infancy? so are fevers.

12 Are persons once affected with nervous
convulsions apt to have them frequently
thru' life? - so are persons affected by
fevers - ^{which often} Intermittents, follow
this life - in all climates & seasons.

13 Are there local convulsions as of the
hand - foot - finger - eye lids &c - ? So there
are local fevers - as in the intermitting fever
of the formal curata - local Inflamm^{2d} &c.

14 Is the Strength of the nervous system
increased by convulsions? so is the

part only of the

22 34

cause of fevers. —

Nature is simple andugal in all her operations. She never makes use of two instruments to accomplish that which she can effect by one. — As the predisposing cause of all general diseases is One, so is the proximate cause. — ^{go to p: 36 =} This is singular action or convolution confined to the agent of disorder in the animal body alone. — It extends this all nature. The natural moral, and political worlds every where exhibit marks of ~~singular action or convolution~~ ^{it.} deformity. Hurricanes - earthquakes - vice - misery - tyranny - and slavery are all the effects of singular action. — ^{These are} all deviations from the Order which was imposed upon them

strength of the Arterial system by fevers
& hence we justify bloodletting in some of
them - for this strength can be reduced fre-
quently in no other way. It exists, while
every other part of the body exhibits signs
of debility. —

15 Do convulsions go off gradually from
the nervous system & as in tetanus ~~Hyp-~~
& Chorea Sancti Vitii? — So they do ^{from the Art. System} in certain
fevers.

16 Do convulsions go off suddenly from
the nervous system? • they do frequently
from the Arterial System ^{in fevers} — by profuse
sweats ^{or hemorrhages} — frequently in a night — & some-
times in a single hour. —

17 Do we ~~not~~ ^{observe} certain convulsions to
continue constantly without impairing
the voluntary faculties, or without destroying
the power of walking &c [as in Bennett &

part only of the
the Universe when it came first from
the hands of its creator) —

~~Let us next inquire what are the
exciting causes of this irregular action
or convulsion in the arterial system.~~

~~To this however, that these causes are
either indirect, or direct Stimuli. —~~

~~The indirect Stimuli consist in the
abstraction of impression. Silence, and
darkness ~~and~~ ~~also~~ excite motions in the
System only, from the absence of sound &
light.~~

~~It is said formerly that there existed in
every animal body, excitement and ex-
citability. ~~from the excitability~~ They are fre-
quently changed into each other. ^{29.} In a
man apparently dead from drowning,~~

✓ hence exciting causes produce fever when there has been previous delirium, which would have made no impression upon the system in its usual & natural state of excitement.

V. have some doubt. I wish ~~Levi~~ ^{you} would give ⁴:
there could be no fever without direct
stimulus - may not the ^{obstructing} ~~long~~ matter
circulation produced in the extremities of
the arteries by the debility of fever & grief
 bewilder and stimulate the system into
irregular or febrile action? -

part only of the
24
the whole excitement of the system is con-
verted into excitability. In the tonic and
nearly
nerves, the whole excitability of the system
is converted into excitement. In the debili-
tary which precedes fever there is a dimin-
ution of excitement, but there is with
it a proportionable increase of the exi-
citability of the system. V.

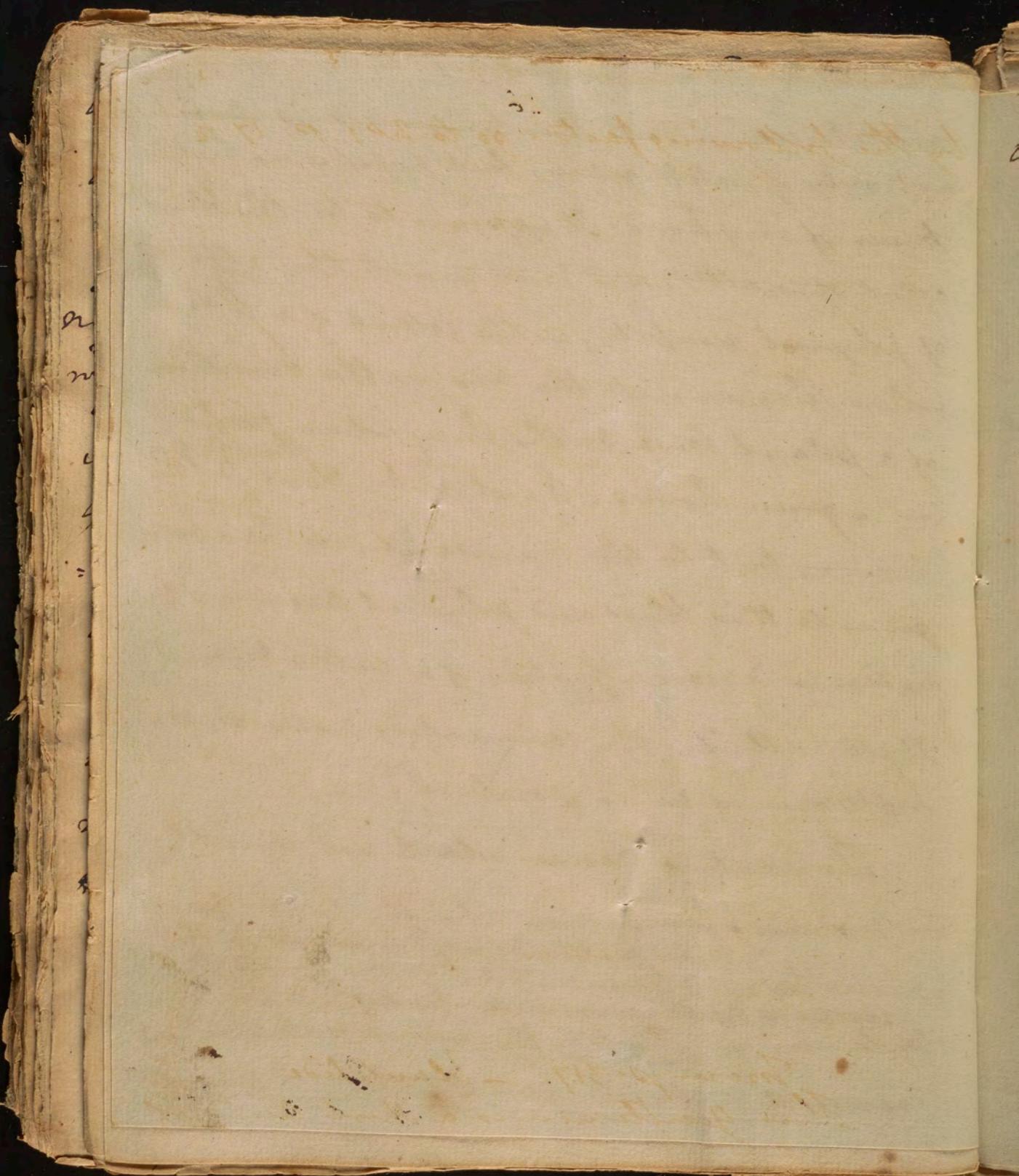
~~that the absence of stimulus; or that
habitual alone will induce fever without
any direct stimulus, I infer from the effects
of fear - and pain upon the human body.
They both produce fear without the interven-
tion of stimulus of any kind.~~ But this is
of
apparently
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This disposition in the system to
right itself, or to restore its equilibrium
has been ascribed by Dr. Hales to the anima
medica, & by Dr. Cullen to the vises naturales

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Medicatrices. - But this principle is devoid
not only of intelligence, but perhaps no healing
power of any kind. It appears to be the blind
effort of matter; and is as much the effect
of physical necessity, as the falling of a stone
when thrown into the air, or the direction
of a plant towards the sun when confined
in a green house. I not only ^{therefore} object to the
power, but to the names which has been
given to this blind and physical Agency of
nature in diseases. ~~Instead of a better term I~~
shall call it, the ~~conservative~~ ⁿ nature, or the
self-preserving power of nature. -

The existing causes which act directly
in producing fever are chiefly heat - His-
tions - and matters retained or formed in the
capillary vessels - and fermenting liquors - and external
violence. - Heat is the principal existing
cause of inflammatory fevers. This I prove



part only of the

by the following facts. ²⁶ go to no. 1. p. 17 2

From p. 317. — blank side
This gentleman is a short an^t of

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part only of the
my theory of fevers. - You will oblige me
by examining every part of it without
the remotest severity. If it be not well founded
the sooner, it is overthrown the better,
but if it be ^{found in reasonable parts} I hope it will lead to more sim-
plicity in the cure of fevers that has ^{hitherto} been
proposed, ~~near by~~ ^{and especially} ~~in~~ ^{big leave to}
~~further~~ add, that the ~~to~~ history of the different kinds
or to speak more accurately ^{of the different} ~~in~~ ^{degrees} of fever
and their method of cure which I shall
deliver hereafter will lead to many facts
which will tend to establish the present
cure ^{which} have been mentioned. This prin-
ciple of irregular action or convolution in
the tertian system was hinted at by Dr Cullen
under the term of reaction in one disease
only, but it is wholly denied or overlooked
by Dr Brown, & hence the principal defect

Col. Stones case].? So we do in fevers
as in the hectic of consumption. —

18 Do we observe certain nervous con-
vulsions to affect some parts of the nervous
system with more force than others, or in
other words do we observe marks of posse-
natural strength or excitement in
one part of the nervous system ~~with~~ attended
with marks of preternatural weakness or a
defect of excitement in other parts of the
same system? — So we do in the arterial
system in fevers. The pulse ^{in the wrists} is often tense
while the heart is weak, & acts with a
diminished force — There is sometimes de-
lirium from too much force in the blood vessels
of the Brain, and a deficiency of force in ^{moreover} ~~the~~
~~blood vessels~~ arteries of every other part of
the body. 19 Is there rigidity ^{as in Cerebrum} in nervous affection? —
Something like it ^{as in fevers where pulse is 60.}
In a word — Gent: as virtue consists in

19. Does debility
or an ~~external~~^a part only of the
nervous system produce general
convulsions - 2. Does debility on the
whole ^{as in settings,}
surface of the or on an ~~internal~~^a part
of the body only of the arterial system,
produce general fever -

20. Does they succeed convulsions 21
it does never - as in dissolved blood &c.

- In a few words - my ideas of
~~inflammation~~ fever may be reduced to a chain
consisting of four or five links. -
1. Debility predisposing debility, or weak-
ness & excitement. 2 Increased Excitability
3 Stimulating power, especially
heat & 4 irregular action on
convulsion in the Arterial System. 01

harmony, ^{to} health consists in Order, and
as vice consists in the absence of harmony,
so disease consists in a want of Order - hence
it is frequently & very properly called Disorder
- Irregular ^{or convulsive} action whether ^{or}
excursive or defective, - ~~or convulsive~~
whether it be seated in the arteries - nerves
Alimentary canal or brain - is nothing else
but the ~~disorder~~ ^{go to p. 33 +} abstraction of the natural
order of motion. - This idea might be extended
much further ~~and all the~~ so as to include
all the ^{moral &} physical disorders of the ^{world.} It
is nothing but irregular ^{or disordered motion,} ~~or convulsive action~~
for Order was the first law of heaven, and
of course the first state of the Universe. I
^{go back to p. 33 +}

Let us next inquire, how far the principles I have delivered will accord with the symptoms of fever. And I shall speak of fever generally or ^{or states} of particular species of fever.

In all fevers there is more or less pain in the head - breast & joints. This arises from the unequal distribution of blood - from the irregular or constrictive action of the heart & arteries.

Thirst arises from an abstraction of blood from the fowes - hence a diminution of secretion and excretion, ⁱⁿ ~~of~~ the throat & of a worse anatomy of the vesicle which of the throat - that thirst is

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induced ^{worked} ~~excitedly~~ ^{excitedly} soon by ~~fit~~ ^{fit} ~~fit~~ I infer from its
being cured ~~by~~ ^{again &} Sleep - both of which
either directly or indirectly
restore ~~to~~ ^{the} excitement.

The white tongue ^{dry} are occasioned
of the usual secretion on ^{the} organ.

abortion - & dyarho are often
brought on by a preternatural determina-
tion of blood to the Stomach and
bowels - hence they are both so often
relieved by sweat & blisters. ✓

The dry skin & partial sweat both
depend upon unequal action of the
veins which terminate on ^{the} surface
of the body.

The high coloured and pale urine
on the excessive or deficient action

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V Exquisitely sensible to light & formed on
expulsive excitement. -

39

of the arteries of the kidneys, ^{size on} or too
little or too much blood being sent to them —

The increased heat shall be explained
hereafter. ~~also partial~~ heat and cold.

In short every thing that

Delirium — or too much, or too
little action in the vessels of the brain.

In a word — every phenomenon of fever
shows irregular action or convulsion in
the arterial system — and in conse-
quence of it, an unequal distribution
of the blood to every part of the body.

Let us next attend

to the symptoms of inflammation.

But what is the cause of the chilly
feet & spasms on the surface of the
body which introduce a fever? They
both appear to be accidental con-
comitants of

equally to attend
a chilblains seems to be inseparable
from indirect, and direct debility. Hence
it attends the beginning, & end of fevers.
It occurs even without fever when
the system is indirectly debilitated,
by fatigue or by contagion. I
shall hereafter ^{mention} many other particular
in which the symptoms of ⁱⁿ direct
indirect debility meet in a point.

fever. ⁴⁰
debility. The chilly fit is generally the
first ~~system~~ symptom of action in
fever. — hence Dr Lind remarks that
where death occurs in the fit of an
intermittent there is no chill. Where
death occurs in the hot fit it is from
cess of action. — It is remarkable
that the chilly fit seldom appears in
its full force, till the patient approaches
a fire, or lies down in a warm bed,
for in these situations the action
of the ^{arterial system} body is best promoted by heat.
The chilly fit Spasm on the vessels
which terminate on the surface of
the body, is occasioned by the ^V ceas of
the blood from the capillary arteries;

have been.

✓ Fevers are properly divided into continual - Remitting. They have been further divided into Inflamm. - Bilious - tertian - and nervous or Typhoid, and typhus. ~~Perhaps it would be more proper to call these designations~~ ^{nervous or} ~~attachment of physicians to these names, I shall~~ ^{considering how} ~~call them~~ ^{the causes of the} Inflamm' Bilious - tertian Typhoid - and typhus ~~states~~ ^{regarding} of fever - for ~~for we~~ ^{we} are seldom we find them in a simple state. ~~These~~ ^{Instances} are not wanting of our finding meeting with all these different ~~states~~ ^{or conditions} of the system in the same fever. Gent: let me arrest your Attention to an important principle, in my system of Surgery & that is - to know no disease by its name - Before you prescribe for it - make it show its face - or in other words - find out the exact state or condition of that ^{part of the} _{in wh: the disease is seated} ~~system~~ ^{temp} as to excitement, and excitability ~~on which the disease is seated~~

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and hence they contract mechanically
like any other soft tubes which are
emptied of their contents. It was no
more a proximate cause of fever than
the thirst - astiveness - or high coloured

Urine which usually attend fever. The
weak pulse during the chilly fit - by the ~~process~~
~~they~~ ~~parts~~ ~~of~~ ~~the~~ ~~blood~~ ~~inwards~~
let us next attend to

10 to the symptoms of particular
species ^{or states} of fever, & examine how
far they agree with our proximate
cause. ✓

~~syno~~cha ^{state} condition
1, of Inflamm: fever. In this ^{fever}
of the arterial system
there is an excus of irregular action.
This is in the arterial system. To this the
depends upon the ^{remote} ~~predisposing~~ causes
of inflam² ^{fever} - all of which tend
to impart vigor to that part of the

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on some other ^{and} occasion
aberration

system. These are plentiful and
nourishing Aliment & violent exercise
or labor - to both these, the cold air
contributes,^{stimulated} - for when moderate, it
increases the appetite, - & every one
knows that in all its usual degrees
in cold climates, it prompts to constant
labor or
excess exercise of the body. - From
the operation of these causes, it is
probable the texture of the arteries
becomes more dense & compact, &
more capable when burst into a
convulsion of violent & durable
excitement. -

These remote causes act
seldom
until they are accompanied by fatigue,
~~which~~ brings on the predisposing ^{ability} ~~ability~~.

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but this ^{is} not sufficient of itself to bring
on Inflamm [&] fever — for in Russia &
Sweden where all the remote and
frequently, the predisposing cause ~~ever~~
during a long winter, inflam: fevers are unknown. The same
remark applies to Canada in North
America. The stimulus of heat
is necessary to act upon the & ex-
citability of the system which
has been accumulated by ^{the} previous
debility — hence inflam: fevers occur
in those countries only in
the Spring. They occur less more
frequently here, but only chiefly
in variable less winters & springs

V Besides the causes which have
been enumerated - it is often produced
by certain contagions acting as
stimuli upon the arterial system.
- But even these contagions are
greatly influenced by the heat-cold
fatigue & quality & quantity of
Aliment formerly mentioned.

44

when the body is frequently exposed
to the stimulus of heat, after its
excitability has been increased by
debilit. effects of
the action of cold. ✓

So far the remote & predisposing
causes of ^{the} inflamm. fever help us
to account for exup of action;
But we often find this exup
fever in habits ^{that have not been} exposed to
~~remote~~ ^{other causes of} causes which have been
mentioned, - as in women of delicate
habits - in consumptive patients -
and in persons who have been de-
bilitated by a long continuance
of ^{other causes of} intermitting fever, - The
excitability in these systems is

Paleyton.

such as pneumonia, Rheumatism,
or ⁿ The local inflammations which
occurs in some ~~dis~~ general fevers, &
which I said formerly are nothing
but symptoms of a disease in the
blood vessels, are occasioned 1 by local
debility in the part affected - 2 by
increased excitability in the part, in
consequence of this debility, 3 by ~~and~~
~~was~~ & morbid excitement induced in the
part, by the ~~stinner~~ loss of distinction from
the blood, and by an effusion of serum
& red Globules into the weakened, & afterward
inflamed part. Here you see I admit
the error loci of Dr Boerhaave in account-
ing for local inflamⁿ. ^{combrising} - By ^{admitting} this
principle with predisposing debility & morbid

produced by always great in proportion as excitement is small - hence they are more easily affected by the debilitating effects of cold, & the stimulating effects of heat.

Effects of ~~heat~~. - It is remarkable that the inflamm⁵ ^{action} diathesis in those habits in less acute & violent than in persons of more robust habits.

- But it is sometimes more obstinate - hence they bear less expirions - they require more frequent bleedings, or a longer continuance of other sedative or debilitating remedies than persons of robust habits who have fed plentifully & used great exercise in cold weather.

excitement, the secret of inflam⁴ is
laid open, and made as plain, as any
of the most simple operations of nature.

46

From the history I have given of
the remote & predisposing causes of in-
flammation ^{of fever} in persons of such opposite
habits, you must now be convinced that
it arises either from direct, and
indirect debility. —

But the question - why excess of action
should occur debility ^{or force in the body} ~~every part of~~
of a part or of the whole ~~and be committed~~
~~body, and be connected for days & weeks~~
with debility in the muscles-
nerves - remain - & abrenn' canals,
remains yet to be answered. I
shall attempt it by directing your
attention for a few minutes to
~~other~~ the operations of Nature in
other parts of her works. —

go to No 8. p: 313 - to 317. —

or
n

de
17

facts & 27

From the analogies I have mentioned, it is apparent & expensive and cause convulsive action in the arteries injured by general, or still connected with partial debility, is no deviation from the general laws & operations of nature.

— In short — I repeat it again —
of the excitability, I consider the excitement of the whole system as absorbed by the blood vessels, and hence we find the inability to perform any of the natural functions of the body to be universally, in proportion to the degree to of excitement in the action of the arterial system. I except here the case where an

v I consider the cure of a fever
whether by nature or art, as no-
thing but the restoration of the
excitement and excitability of
the system to an equilibrium,
or an equal diffusion of heat
to every part of the body.

inflamm² fever produces a strong 48
delirium. Here the nervous system
is affected, and a new disease viz
Frenzy from fever is born on.
But of this - hereafter. v

In this explanation of the cause
of excess of action in inflamm² fevers,
you see the Absurdity & danger of Dr
Brown's opinion that excitement is
uniform in all diseases. A Disease
is the reverse of this, - it consists in
most cases of divided excitement.
of this I shall give you many proofs
in our lectures especially on Patho-
logy. my system is

But what shall we say of these
inflamm² fevers in which there occurs

The same thing occurs in the
plague & in several other con-
tagious diseases. It occurred in
many cases in the yellow fever both
last, & this year in this city. Sometimes
the pulse is subject to protraction & by
slow & intermitting. I ^{explain these} answer to
~~questions~~ by remarking that the weak
low pulse slow & intermitting pulse
are all occasioned by the immense

no except of action ⁴⁹? Dr. Cullen
calls them cold stomachies, and Dr.
Michaelis calls them slow inflammations,
Dr. Grise of Jamaica in
has described ^{it} very accurately
in a species of Plurisy which often
occurs among the negroes in that
Island. He says the pulse is so weak
as not to be scarcely perceptible

~~¶ y. there is no heat attends it.~~
~~answer that~~
In the former case I suppose the
inflamm. to be local, & that the whole
system is not lost into sympathy
with it. In the latter case related by
Dr. Grise in the case of contagious
extirpation or the stimulus of the
contagion to be so great, as to induce indirect
debility - hence the absence of heat,

force of the stimulus of pain, or
contagion acting upon the
~~heart, and brain & heart.~~ That
this is the case, I infer th^e from
there being ~~is~~ instantly removed
in many cases by the abstraction
of stimuli - particularly by
purging & bleeding. - I wish for

a name to distinguish ~~this~~ that
malignant
state of inflam^d fever in which this
depressed pulse occurs, from the
synocha pulse which is common
in Rheumatism & Pleurisy. - I
have called it in my Ac^t of the yellow
fever - a deadly pulse! one of my
pupils called it this year more pro-
perly "a locked pulse". -

8

~~Of the languor of the pulse. I have seen fevers, & various diseases with the same symptoms - & have found with Dr. C. the heat & pulse rise by 10°.~~
~~It acts by abstracting those degrees of stimulus which produce the indirect debility. I shall hereafter mention other instances of the abstraction of parts of stimulus, producing action in the system.~~

~~or insipid state of febrile action in white bile is discharge.~~
2 In the bilious ^{fever} ~~fever~~ and in all other fevers (most insipid) attended with loss of action - the same principles which have been mentioned will explain the cause of that ^{the} excessive action which takes place in the arterial system. The stimulus

V ~~succes~~ ^{seldom} of these fevers are of
long duration from their not
being having been produced by the
strong exciting powers which ~~form~~
^{common} ~~form~~ ^{state of} the ~~inflam~~ ^{inflamm} fever. — ~~that~~ I hope to
show hereafter that the discharge of
bile, & the occasional inflamⁿ of
the liver which take place in the
bilious fever are produced by a specific
determination to the ~~liver~~ ^{of the marsh}
miasmata to the liver. — go on — to 3:

51

in those fevers is no different from
inflammation. it is frequently, ~~marked~~ ^{from} ~~marked~~
~~marked~~ ^{marked} ~~marked~~ effervescence - or specific ~~action~~ ^{action},
generated from it.
Where these fevers occur with symptoms
of deficiency of action in the
artificial system, - it is owing to long
continued ^{repeated} predisposing & exciting
causes bringing on a deficiency of ex-
hausting the excitability of the system,
or to the force of stimuli bringing
on indirect debility. ~~so~~ Sometimes
the force of these stimuli is so great
as to induce not only indirect debility,
but instant death by sudden-
ly destroying the excitement of the
system.

~~3~~ In the signature of Dr. Haller there

V3rd ~~to~~ what is the state of the arterial system in what Dr. Cullen calls the ~~typhous~~ ^{typhoic} ~~quinsy~~ what is commonly called a putrid fever? I answer that in most cases no putrefaction can take place in the blood in the living state, & ^{that} the symptoms which are ^{next} supposed to be the effects of a putrefaction are the effects of a sudden violent & rapid inflammatory action in the arterial ^{system} ~~symptoms~~ - ending & tracing ^{the} blood vessels these insure instances into in every part of the body. This idea I borrow from Dr. Hydenham, who justly ascribes hemorrhages in putrid fevers to a weakness & rupture of the vessels due to a putrid deposit of the blood - for they often happen where the blood is dense & even ^{what is called} sicc. A putrid fever then is only a highest possible degree of inflammatory fever. The symptoms of weakness languor &c are all the effects of indirect debility suddenly induced on the system ^{of the power to renew} ~~of the power to renew~~

52. ~~inflamm.~~

cases of irregular ~~action~~ ^{inflamm.} in the begin-
ning & deficiency in its close. The
reduction of the expansive action is effected
either by medicine, or by a waste of
excitement from the continuance of
action.

~~For the Typhos~~ ^{state of fever} ~~there is general~~
~~deficiency of action in the arterial system.~~
~~or convulsive.~~
~~irregular.~~ It sometimes an
original disease, - but it more
frequently succeeds ^{the} ~~inflamm.~~ or
~~States of~~ ~~bilious, fevers.~~ When it succeeds
~~the pulse in this state of fever is weak & quick.~~
the former, it is called Typhus ⁱⁿ either
by ^{the} ~~Galen~~ - the latter Typhus ⁱⁿ
- ~~governed by Galen.~~ The pulse
in both cases is generally weak
~~quick~~ ^{quick} but I have seen felt it

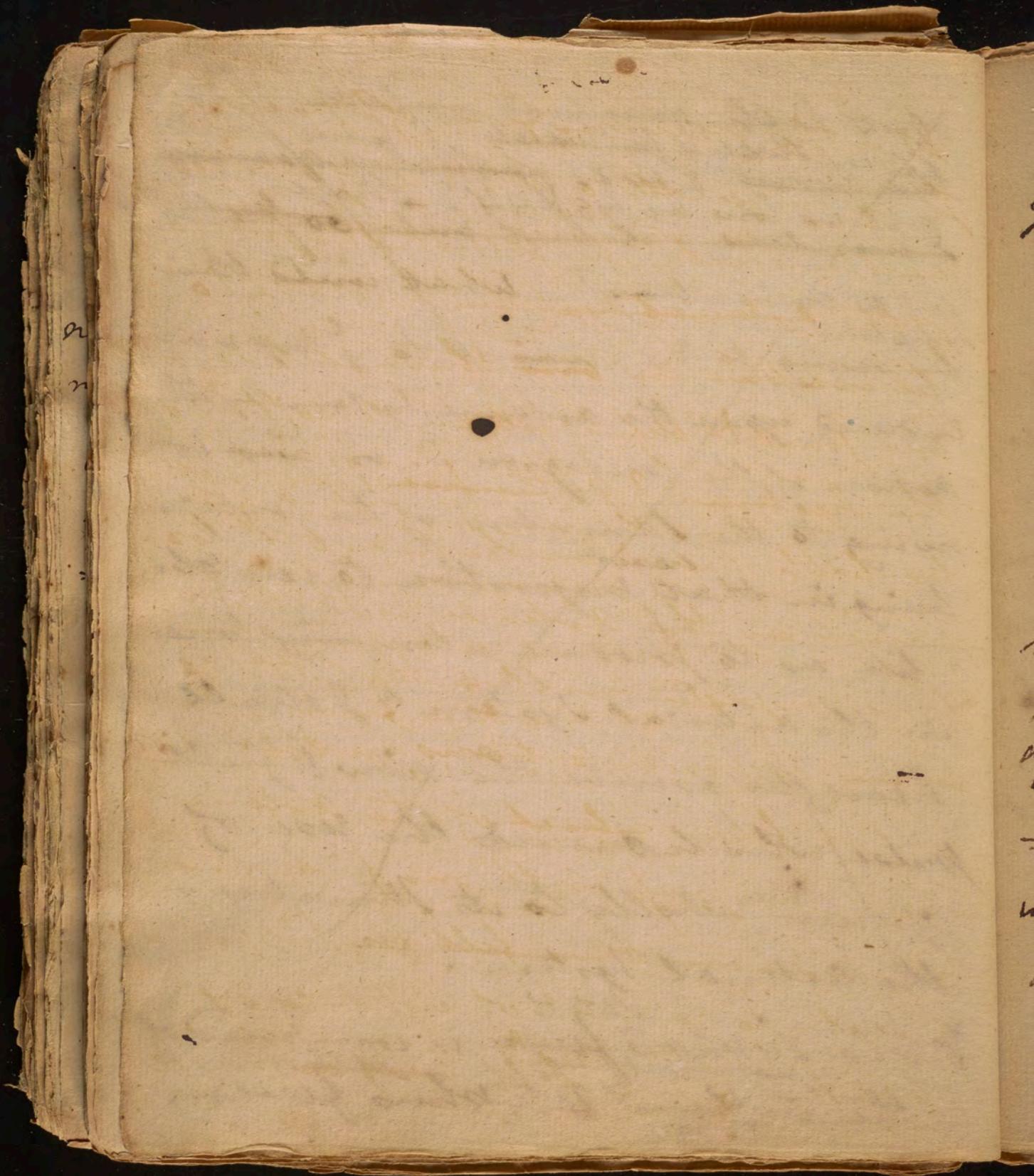
Dr Stubbs ~~do~~ in the philosophy of Manœuvres
describes a putrid fever ~~do~~ in the West Indies
attended with the same symptoms. It is likewise
taken notice of by Vergafcha in his history of the
Plague - by Sorbait in his account of the plague of
the malign² sore throat - & by Boate's description of the
Irish plague in his natural history of Ireland. They all consider
this slow pulse ~~as~~ a very improper as a mark of the ab-
sence of fever.

✓ It seems to answer to the rigidity which
we sometimes observe after spasmodic
affections in a part or the whole of
the nervous system - for these cases the
contractions in the muscular fibres are
~~perfectly natural~~ suspended by the
equal action of antagonist muscles.

more 53

but little quickened in either of the
~~some stage of the want~~ I have found
~~the worse Cases of Syphus~~ of course
I it as low as 48 & 44 strokes
~~less than~~ it beat only ~~60~~ strokes
in a minutes. + what ^{can} this
symptom be owing to? - was it to ^{is} torpor
induced upon the arterial system by the
action of the contagion? or was it
owing to the ^{exact} stimulus of the contagion
being in that ^{exact} proportion to irritabi-
lity as to produce a temporary tone
in the arterial system? I shall
hereafter ascribe the slow & full
pulse which succeeds the use of
Opium wholly to its stimulus on
the arterial system.

The ^{state of} Syphoid fever is composed of
the inflam ^{state of} & typhus, fevers.



It is the nervous fever of DeHusson.
 It is evidently a disease of divided
 existent. The muscular fibres
 of the ~~arterial~~ ^{arteries} system appears to
 be inactive in ~~one~~ this action in
 one part & deficient in another of
 the system. E.g: there is often
 too little action in the heart, & too
 much in the arteries - But I
 have suspected further that there
~~are~~ ^{in this fever} opposite actions in the mu-
 scular fibres ~~which~~ of the arteries
 which we press with our fingers. I
~~think~~ I have often felt for supposing
 a pulse to consist of eight cords, I
~~think~~ I have ^{frequently} felt half or more

X This species of fever deserves its
name from the nervous system &
brain being more or less affected in
it - hence delirium - tremors - con-
vulsions & even mania called Typho-
mania by Dr. Cullen in its last Stage.

- Its last stage is generally Typhus.
This change into simple typhus
often occurs about
the 15th day. -

~~FB~~

55 or relaxed

or less of them tense according as
the fever partakes more or less of
the inflamm: or typhous action: —
~~56~~ I think this pulse is the cha-
racteristic of the juvenile fever.
The Scrophularia - and of ² hectic fever.
This species of fever is the most difficult
of cure of any that have been men-
tioned, ~~57~~ Return to p: 8. n^o 6.

~~58~~ The Intermittent ^{state of} fever is a disease
of ⁱⁿ which remote & predisposing
causes evidently produce debility.
— The action which occurs in it is
generally ^{often} explosive - hence Bark is so
hurtful when given during the
fit. It differs from all other

19th: There is the Febri fever & the hysterical.
In both these - patients are able to walk
about. In these cases, the disease affects
the arterial system only with convulsions,
without injuring the brain - tumors - or
muscular ^{of} posture for the alimentary canal
into the ^{of} Impairing ^{of} the ^{of} complications of fevers
constantly. There are fevers without in

the beginning are typhus - typhoid & even intermit. which in the course of 3 - 5 - 7 - 10 or even 15 days assume an inflam' type - How shall we explain this? Why from some new stimulus - such as a full meal - heating drinks - stimulating med: as Bark - or Land ^{or} ~~or~~ improper exercise - heat exceeding cold - or some internal Congestion being added to the system. ~~go up to + 9:~~ Fevers of all kinds, tend to

56

fevers in a speedy bring of a short duration. Its ~~recurrence~~ is ^{occurred} not only by mistake - but cold, - hence its recurrence in the Spring where there is no exhalation. The return of the paroxysms is said to be occasioned by the recurrence of delirious ^{hall} ~~hence~~ ^{and the cause} ~~after~~ ^{would rather} ~~would~~ settle ascribe it to ~~Association~~ ^{Agitation}: This is of two kinds. viz: ideas demotions. The return of intermittents seems to be occasioned by the associations of emotions. — more of this hereafter. all ~~fever~~ ^{fever} intermittents.

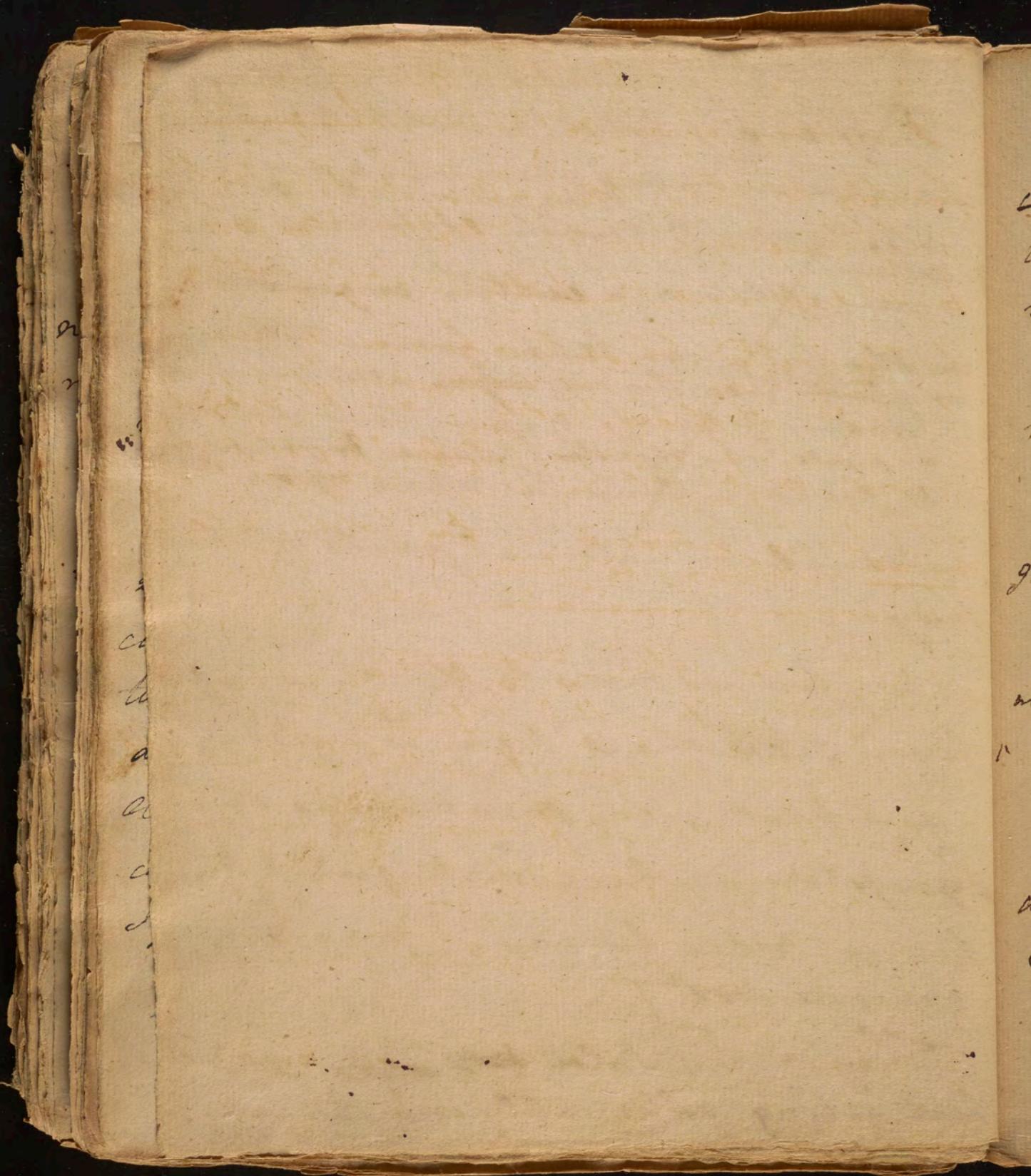
I should now have proceeded to treat of the remote causes of fevers, - but they will come in more properly in the Pathology. I shall at present only name them over again: —

the destruction of the system is one, ~~one~~
of the 3 following ways. 1 By the destruction
of some of the viscera whose functions are
necessary to life, by effusion - distention - or
laceration from the impetus or quantity of
the blood, or the explosive action of the
veins which terminate in them. 2 By the
alteration in the ^{quality} of the fluids ^{which}
render them unfit for the purposes of
the animal life. Whether this alteration
consists in putrefaction - this is not the place
to enquire. 3 By simple debility without
any organic affections of the viscera, or
change in the fluids. - The two first often
^{unite} ~~combine~~ their influence in destroying the
system.

They are 1 cold. 2 Heat. 3 Inflammation
 - presence in eating - during ceremony
 is fatigue. 5 Marsh effluvia. 6 Hu-
 - yellow burns
 - man effluvia, - either engendered
 in the body - or taken from others,
 in ~~the last~~ ^{regional} case, they are ~~taken~~ called contagious.
 7 Soar. 8 Brief of specific contagious
 as small pox - measles - plague bubbling
 & 10 certain ~~similar~~ ^{similar} acting upon the
 external, or internal parts of the
 body.

We proceed now to the cure of
 fevers. We shall begin ^{the} Inflammation
 - and first - by distinguishing the
 symptoms which distinguish them
 from other fevers. [Is: 27 off^o;
~~opposite side~~]

They are 1 cold ~~and~~ this and
 heat acting alternately on the body.



58 nearly all fevers

Dr. Denham ascribes the greatest
chiefly to this cause - particularly
to leaving off winter cloathes too soon,
& or exposing the body to cold, after
being heated. These two sources of fever
he adds destroy more than the plague,
sword, or famine. Wal. Edit. Vol. 1 p. 357.

The fevers produced by the cold are
generally accompanied by an
~~sore~~ ^{sore} ~~pleurisy~~ ^{pleurisy} ~~thoracatis~~ Inflamm: in
the lungs called pneumony - or by
inflamm: in the throat called angina - or by
inflamm: in the joints called Rheumatism
- Sometimes these fevers are without
any topical inflam: -

2. Intemperance in eating, drinking
& venery. -

3 marsh miasmata. These produce
intermitting, remitting, bilious &

21

C
2
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0

59

yellow states of fever. They propagate themselves under certain circumstances by Contagion.

4 Human Opiasmata. They produce the said fever - the Influenza, and the plague, each of which is afterwards propagated by Contagion.

5 certain specific Contagions as the smallpox & measles. - the scarboina - ~~pathinosa~~, & the angina maligna.

6 certain depressing propensions as grief & fear. —

7 certain stimuli acting upon the external, or internal parts of the body. —

I proceed next to treat of the cure of fever. —

or

2

5

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A

A

C

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=

So I shall begin with the inflam'd state of fever. — The following appears to be the order of inflam'd diathesis in the system in diff^r. fevers.

1 The Plague.

2 The yellow fever

3 The small pox. — where mal^r S. throat.

4 fever from cold & appearing with the symptoms of pleurisy — angina. — Rheumatism & occasionally Gout. — or pulmon^y consumption

5 The measles.

6 The catarrh from cold & influenza from Contagion.

6 The common remitt^r. bilious fever — appearing sometimes in the symptoms of Colic ^{Dysentery} & Hepatitis,

6 Hydrocephalus internus.

7 The Scrofula — pernicious & hectic fever.

the inflam^y state of

V The Remedies for Fever. ~~in the~~
~~first stages~~ consist in the Abstraction
 of Stimulus by
 I evacuations. These are

1 Blood letting.

2 purging.

3 Vomiting

4 Sweating.

5 a Salivation.

6 Blisters

II. The Abstraction of Stimulus of
 heat by
 by. 1 Cold air & of

2 cold water } of body

of food by 3 Abstinence . of

of ~~sound~~ light by 4 Silence - Darkness -

of inqui^{pi} pation, 5 moderate fears . & most by least
 of Aversion by 6 Diluting drinks - 7 cleanings -
 III Sedative Remedies - as

1 nitre . 2 Glanders & co
 3. 4. 5. 6. 7. Digitalis. Oil

I shall first make a few remarks
 upon each of the above Remedies,
 and then apply them to each of

of the jail fever

of the malignant sore throat. 2

to the common mild intermittent.

You will remember that the degree of inflamm action in each of the above fevers is much varied by season & climate - Of course the order I have adopted is subject to an occasional variety. — V

~~I The plague is the most inflam^d of all diseases. It depends upon in-
-crease force of stimulus so great as
sometimes instantly to extinguish
life, but more frequently to prostrate
all the active powers of the system,
& also to destroy the organization~~

Dilatation &
of the skin vessels

of the viscera, and to produce
sustains & effusions which termin-
-nate on the skin & in the lymphatic
glands - hence the frequency of
Pustules - Abscesses - Bubos &c in
this disorder.

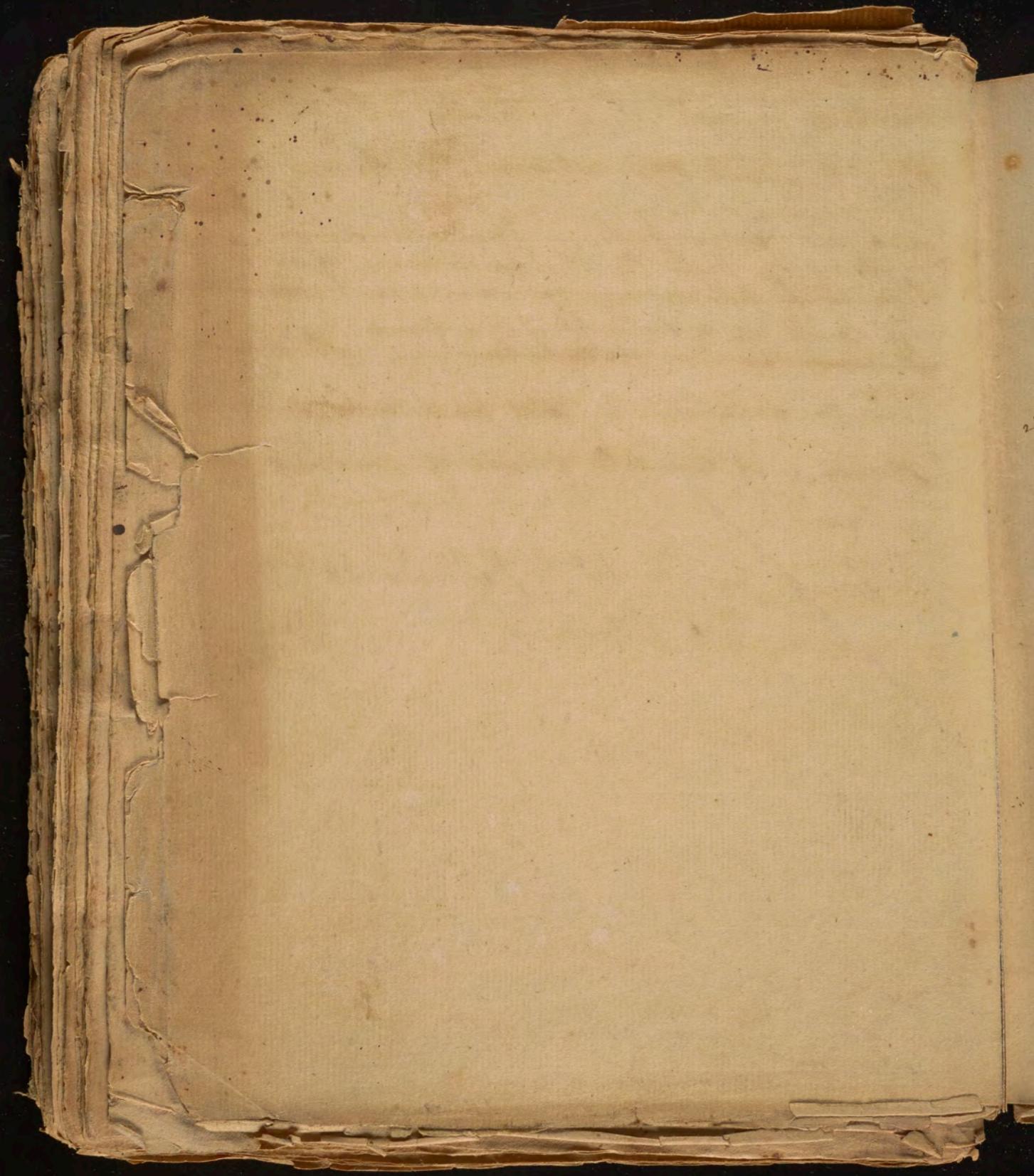
~~the yellow fever~~

will be ¹⁴¹ viewed in the same light that
the coasting voyages of antiquity have
been viewed by the moderns since the
discovery and use of the magnet in
Navigation. ~~One fact also~~ I have met
with several facts which lead me to
entertain this opinion, ^{one of which}
only is ripe for communication, and
it is this) — I have lately heard that
the Indians ^{in this country} cure a ^{fever} (a disease
of the highest ^{inflamm'} ^{action} ~~inflamm'~~ ^{for sometime} ~~distress~~) by susp-
-hending themselves, ^{or upon a beam in} ^{cabins} ^{of} ^{inflamm' fvers}
side upon the limb of a tree & their ex-
-citement is taken down & excitability
rested at the same time, & from our
part of the effects of cold air in ^{inflamm' fvers} ^{the case}
of entombed lodger, we are prepared to

But again informs us the was
Capt. Cook ~~out~~ of himself
being cured of an infl. Rheuma-
tism by hard frictions in one
of the friendly Islands which he
visited. The frictions agitated his system
violently, but they ~~soon~~ removed his
disorder perfectly in four & twenty
hours. —

confide most in a remedy which produces
 that two fold operation. ^{hurt} I throw therefore
 out for your future consideration, and
~~it may lead to the discovery of more~~
~~useful~~ ^{Perhaps}
~~parts of a similar nature~~ which may
~~I consider the desirability~~ help to establish the practice, a more
 speedy and simple mode of curing inf
 diseases.

Part from Wm Penn's letter in
 his own flower



exposed to strong exciting powers, (for re-
mittents happen usually in Autumn) they
are soon accompanied by a defect of action,
hence they are apt to be ^{of} a mixed nature,
& always tend to typhus or venous fever.

In the Intermittent fever there is strong
irregular action, & a speedy Solution of the fever
only because the system is free from the
influence of those causes which produce
a tension in the arterial System or
inflamm'd Diathesis. ✓

In the Typhus mitior ~~there is~~ & still more
a small ^{degree of} regular action ^{much} regular action
~~or the Gravior~~, but a greater defect of ^{most frequently} action

In the Typhus Gravior there is a total
defect of ^{both} action - hence it sometimes
proves fatal in its first attack, & hence
it sometimes appears without ~~as~~ a
chilly fit. The Absence of a chill inun-
-dicates the utmost debility, & the most
frightful state of the ^{vis mortis} ~~self preserving power~~

✓ Before we proceed to the cure of inflamm' fever
will be necessary to lay down the marks or signs
which distinguish them from the few
that have been mentioned. These are to
be ^{disposing} ~~disposing~~ ^{quoted yesterday}
1 From the remote causes - taken from
Cullen - especially previous Cold & heat.
includes a regard to the season, & ~~the~~ ^{the} pursuing you
2 From the Symptoms - ~~as~~ ^{most frequently} topical pain -
of the sides or shoulder - or breast - constituting
the absence of vomiting - very often afford a
suspicion of the existence of inflamm' fever
3 From the age
The ~~age~~ ^{previous} & constitution of the patient
The young & athletic being most subject
to inflamm' fevers. -
4 From the habits of the patient with
to disease. A man died ^{in 1788.} last year in
of his 34th year of a pleurisy. I have often seen
him labouring in his 2⁷th or 28th year.
5 From the country, or late place of residence
of a patient. we are creatures of use
as well as of habit, & the effects of it are
transported with us to foreign countries.
An American in London requires well

Let us now attend to the cure of
Inflamm' fevers. In these I include Pneumon-
omy & Rheumatism - Inflamm' & Angina -
the inflam' small pox & measles
- Inflamm' Cataract - & most other topical
Inflamm' & Ulcer' & Dr' Cullin's
~~such as~~ & lastly Sycosis - or the simple

Inflamm. & fevers. I consider them all as primary. The other inflamm. & diseases of the whole system. The drugs are to be considered hereafter. They probably depend on throat ~~and~~ ^{which} are affected in the peripneumony - ~~inflamm.~~ ~~and~~ ^{inflamm.} Cough & catarrh, only in consequence of their being a contamination of the parts of the body. They are the consequences only of a general affection of the system. [Cotton]

I know that doubts have been entertained
whether there can be a simple inflam-
mation of fever without topical affection. I
hesitated upon this subject - but I am now
satisfied that it can & does exist - having seen
many distinct cases of it
Before we proceed to treat -

more
the loss of 4 times the blood &c: a citizen of London
of this I saw an example in Capt. Lawrence's
- The history of this case presented probably in
January. It may be useful to Southern practitioners
when called to visit new settlers from the
- then States. - This observation may be taken
on Hillary - Capt. ~~is~~ & swelled leg common
after Intermittents in Barbados. The first con-
in London th Barbadoes, & I once saw the 2nd
a maid lost from Barbados by a gentle-
in this city. - 6 The previous season
of the chief ^{distinction} marks of Inflamm' fever is to
taken from the Pulse. It is hard - jerk
& generally full ^{the} But is often hard with
much fulness. A quick pulse should be suspected of
being connected w: ^{the} Inflamm' Diathesis.
pulse the following circumstances should
attended to. See p: 113: of N^o 4. -

(1) The pulse should be felt with the fingers
- never with the thumb - preferably
with the fingers of one hand only
- having to enlarge this perception the hand is
wanted. (2) Different positions of the body - as lying

of the usual remedies in inflam² & fevers, two
very important questions
questions are to be answered. —

1 ~~First~~ ^{possible} are there any marks
by which the approach of an inflam²
fever may be known, & are there any
means of preventing it? — I answer
yes. — To predict the approach & thereby
to prevent the attack of diseases is a much neglected
part of medicine. There are few natural
evils in the world, which have not
their harbingers, & and I believe most dis-

— cases have their precursors, or premonitory
signs. — Frightful dreams precede the
Vapours & I believe that they can tell when they are
internal dryness of the brain — Costiveness,
about to be indisposed by losing ^{if} relishes their
& short, small stools precede the Dysentery.
^{if} tobacco.

or burning in the palms of the hands,
& a quick pulse in the evening often
appear three months before the cough
which ushers in the Consumption
of the lungs. A pain in the back

the sides & back - setting up - standing up - & proximity to a fire all influence the pulse. —

(3) Different parts of the System as Sleep - a full &
- 4 occasions Aliment & drinks -

41 Passions of the mind - such as hope - fear -
be the exercise of the understanding -
- goes by - It never be felt soon after a phy-
-cian enters a room, nor ~~after~~ should
judgement be formed of it after Dr. has been
recommended - -

(5) Different positions of the hand influence the pulse - It. always be free from pressure, moderation best - fewest vessels then ad-

6) The state of sensation in a physician
being different in different postures, he
always ~~young~~ ~~old~~ feel it in the

Name - Setting is best. ~~anywhere~~ ~~any~~
He will find an advantage in conser-
~~permanence~~ ~~anywhere~~ ~~any~~

trating his sensations by commanding silence, & even shutting his eyes. By

111. Pulse is $1\frac{1}{3}$ slower in the morning -
is slower in sleeps than in waking -

